D. Beaver
1967

Alaska

Journal

Insect Sampling

Species Accounts

D. Beaver
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Alaska

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Catalogue

16 June — AACS installations, Point Barrow, Pt Hale, Alaska

DLB #1 — ♀ *Phalaropus fulicarius* Ad. OV. — wt. 50 gm. (possibly dried)

fat — 1900 (picked up.)

5 July — Barrel area, Barrow, Alaska

DLB #2 — ♂ — Ad. L.+C 8mm x 3mm. R-shot. — wt. 565 gm.

very fat — 1005

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13 June — Barrow Research Station, P.A., Alaska

0900 Left by myself to south of research station to look over the tundra. This area has many barrels, old scrap metal, and other junk. I saw a Snow Bunting ♂ and ♀ together on a grassy hump of the tundra (see p. account)

0915 Live just spotted two Lapland Longspurs on the ground near a pond in the tundra which is full of water (see p. accounts)

0930 Live just come across King Eider drake ♂ sitting in a small 15' × 8' pond with water. He is either very tame or injured because I walked up to him and he only moved off a few feet. (see p. account).

0950 Live just spotted a Parasitic Jaeger and a Snowy Owl. The P. Jaeger is sitting on a high spot on the tundra in the open space in the ice pile. The S. Owl is perched on top of a fence post holding wings out as to a small thing. (see p. accounts)

Observed these birds for about 10 min. when I saw another S. Owl and 2 P. Jaegers fly close by to the south of the first one.

1009 4 More birds just flew by in quick flight and they were making a whining noise that sounds very much like a frog or so. I saw then land and circled very intently.

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Alaska [illegible]

13 June cont.

1009 cont. [illegible] Sandpiper [illegible] by [illegible]. The [illegible] gave a series of [illegible] in the [illegible] and [illegible] in flight [illegible] [illegible] see sp. account.

1030 I have now walked further east [illegible] from the west end of the camp. East of me I saw an [illegible] [illegible] flower (see sp. account). I also saw 3 [illegible] sandpipers feeding and calling near a small pool in the tundra. See sp. account.

1040 [illegible] [illegible] L.L. [illegible] and a [illegible] sandpiper.

1115 Arrived back in camp to compile notes and [illegible] concerning this [illegible] activity.

1330 Karl [illegible] and I left the camp to walk east to survey the tundra for more birds and the [illegible]. We [illegible] back road to the FAA installation and [illegible] [illegible] [illegible] is a ~~[illegible]~~ small [illegible] [illegible]. See sp. account.

1350 Just walked up on [illegible] (according to Karl) [illegible] have [illegible] [illegible] Sandpiper

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13 June (cont.)

13 (cont.) They were leaving our home when we drove up. Lyons about (in gl. mount).

1430 Still in foggy range. Not so south as west & at summit rate. Low & bad weather. Clouds only lifted by an opening down up canal. Low in valleys to east & south. Lake of big lake winds flows over gap west and North. Air still has very clear expanses of the property for miles. It has had frosted weeks both ways. Tundra - foggy. Not now as bad as yesterday. Lows are dark of water are not plain as now. The appearance of lake up to speak into and also foggy. We are going from the other pass to the other pass by bringing into [illegible] one of the little mountains. Out of the approaches and pass in the [illegible] of up later and come in a new country in the [illegible]. The vegetation [illegible] varies considerably with the elevation and amount of [illegible]. Moss and [illegible] are plentiful for one. Grasses and [illegible] with lows are in large patches of [illegible] and [illegible] the crossing is [illegible]

Brown
1969?

[illegible] [illegible]

13 June cont'd

1400 (H) [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
the temperature at [illegible] in [illegible].

1630 [illegible] [illegible] [illegible] a large [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] we found [illegible] [illegible]
on the [illegible] rocks [illegible] camp at [illegible].

14 June [illegible] [illegible] [illegible] [illegible]
0?? the [illegible] for fast [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] of all continues on to the [illegible]. [illegible]

0730 [illegible] [illegible] [illegible] [illegible] [illegible]
a [illegible] of pintail [illegible] on a small [illegible]:
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
and [illegible]. [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible].

0740 [illegible] [illegible] east of [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible]. [illegible] [illegible] [illegible] [illegible]
~~[illegible]~~ Sandpiper feeding. [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] of the camp [illegible] [illegible]

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[illegible]

14 June

1020 [illegible] [illegible] [illegible]

Beaver
1969

[illegible] [illegible]

([illegible] [illegible] cont.)

15 June (Cont.) As evidenced by the moist ground around egg; nearly [illegible] of [illegible] [illegible] 7 [illegible] [illegible] [illegible] [illegible] 64. [illegible]

0920 Karl saw one of his nest markers so we located the nest. [illegible] a Longspur nest w. [illegible] [illegible] [illegible]

0935 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

0940 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 3 ft [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] reference.

0945 We are more distant from the [illegible] [illegible] and in an area of poorly developed polygons. I [illegible] [illegible] [illegible] [illegible]

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Alaska [illegible]

15 June (cont.)

1945 cont. to complete [illegible] [illegible]. this [illegible] [illegible] [illegible]. [illegible] [illegible] for [illegible] [illegible] [illegible] to further south [illegible] [illegible] [illegible] sample #2 [illegible] up [illegible] [illegible] [illegible]. I then returned to the lab. to examine [illegible] results of both samples

1300 I [illegible] the library to find [illegible] [illegible] [illegible] that might be [illegible]. Very few pertinent articles were [illegible]. The remainder of the afternoon was spent sorting through sample #2. [illegible] [illegible] found in this sample.

16 June

0800 Started working [illegible] sample [illegible] this morning. Am finding many larvae of [illegible] and other invertebrates. I spent the rest of the day to evening working on the samples. Found nematodes, [illegible], [illegible] [illegible] and [illegible] [illegible].

1900 I left w/ camera [illegible] [illegible]. [illegible] and to photograph [illegible] [illegible], [illegible] and [illegible]. I first ~~[illegible]~~ went to the [illegible] and took [illegible] photographs of [illegible] [illegible]. [illegible], then I walked out into the [illegible] in the [illegible] [illegible] area and photographed [illegible] [illegible] [illegible] [illegible] [illegible]

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[illegible] June

16 June (cont.)

1930 (cont.) [illegible]

1100 [illegible]

17 June

0830 Decided to go collect [illegible]

1030 Finally left [illegible]

1000 [illegible]

1100 [illegible]

1100 [illegible]

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1967

17 June

1125 [illegible]

1210 [illegible]

1235 [illegible]

18 June

090 [illegible]

Beaver
1969

19 June
0800 Went through Sapai & the Tuna River channel. Then S. Nadian drove on his canoe w/ 1 Iban crewman & Primaire paddling. We spent the morning of the 19th talking about the project, Primaire gave me an idea that would start the project going.

1200 Ate lunch then tried T. water mark but not sure alt. the dying fish I saw for my Bro. study on Tuesday. We saw a few - saw, very, few fish, I think the poisons had dissipated by this time. But attempted to use dip nets in shallows, it was too hot & too windy, at 0800 just around dawn so below pre-monsoon water may be more it to be trouble to fish. We didn't catch anything. S. Nadian said

1520 will be back on S. Sea the water is so turbulent next trip we will need more time to sample fish. It is very, about, 10 ft. & shallow where most animals live (Orang Utan & Proboscis) & lot of fishing activity in C[illegible] Mentia

Beaver
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19 June
(cont.)

1500

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

We [illegible] Beaver [illegible]

[illegible]

[illegible] habitat [illegible]. [illegible] a [illegible] air, A [illegible] flew up [illegible] times and gave a few [illegible] flew towards us. We were sure it had [illegible]

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Nelka

June 12

19 June

[illegible]

100

[illegible] time.)

1620 We reached re-timed the camp.

1741 T. [illegible] 20 [illegible]

[illegible]

found two [illegible] in [illegible]

[illegible]

[illegible] egg [illegible]

[illegible]

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20 June
0800 [illegible] and left camp at 0800 and
two to clear the dawning fog and
photograph shore birds. [illegible]
of the species ♂ & ♀. [illegible]
the Pectoral Sandpiper [illegible]
[illegible] the [illegible] of the
[illegible] to the [illegible]. [illegible]
[illegible] in [illegible]
[illegible] of
Glaucous Gull. [illegible]
Lab. at [illegible]. [illegible] A.M. [illegible]
[illegible] all. [illegible] is about 15 [illegible]
from the [illegible].

1300 I went to the lab. in the P.M. to go through more
numero samples (see Diptera Study) and also
to read some literature on Diptera ecology
and phenology. [illegible]
1800 went with Tom to check the dawning [illegible]
It was cold and windy. On the return we
stopped at two [illegible] stopping next to
watch the actions of 2 [illegible] what a [illegible]
in the process of rearranging [illegible]
[illegible] the fining of [illegible].
2300 Finally got [illegible] and am turning
in.

Beaver
1967

[illegible] June 14

21 June.

0830 Lt. [illegible], [illegible].

0930 The following samples were taken [illegible] with [illegible] [illegible] [illegible] [illegible].

Sample #5
On the ridge - [illegible] the side of a high polygon.

Sample #6. - as above - [illegible] in vegetation area.

Sample #7 - high polygon [illegible] - [illegible]

Sample #8 - as above

Sample #9 - [illegible] [illegible] polygon

Sample #10 - [illegible]

Sample #11 - [illegible] [illegible] [illegible] polygon - [illegible]

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21 June (Cont.)

Sample #12 - as number 1

Sample #13 - From pit area with crocidolite

Sample #14 - as above.

Sample #15 - pit edge, opposite pit.

Sample #16 - as above.

1030 Entire marsh top dies, beach ridge wet
above S.T.O. the marsh edge.

A dead fish has been on beach
since it was entirely dark. I
checked both ends of beach
recent in any trips because the rains
had set them off. After finishing the dive
I took four more samples. All were taken
toward the bottom of the slope of beach ridge
to central marsh.

Sample #17, 18, 19, and 20 are from the
slope. See diagram in map.

1205 Returned back at the lab.

1300 I took all the samples into the lab. and
placed the very wet ones in the freezer
funnels to dry then some Reptile going through

Beaver
1967

21 June

[illegible]

1700 [illegible]

[illegible] Scuppers [illegible]

[illegible] Rusty [illegible]
swamp with [illegible].

[illegible]

1950 [illegible] we on
[illegible].

22 June

0800 Started doing sample #6 and then at about 0930, I'm out first out to check lines for 6 and then pick them up. On the way back we broke a mast on the beaver but not clear though. We managed to limp back in by 1205. The [illegible] wind has been blowing all morning and the clouds are low. Looks like a storm could be moving in.

1300 I started up again on sample #6 (Cyathus study) and continued on [illegible]

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Alaska

June 17

22 June (cont.)

Dropped #7. It snowed lightly during the afternoon and was cold.

1900 Crew, Tom and I set a trap in a downed tree to catch wolverines and possibly other furbearers on the net. The trap consisted of the following.

We took the trap out to the area in the early afternoon and set it. We had no luck. So, we left the trap in a hope that we might be able to find some more sign. We then proceeded to visit another 2 areas in the same manner. Tom & I decided to work with the ex-cabin. Finished at 1930.

23 June 0800 Worked in the morning and repaired the spike study, and also finished the sample for the brine fundament and separation for coloring in the laboratory. Left camp at 1330 this afternoon.

1330 Crew M. Tom & I left in the

Beaver
1967

23 June (cont.)
Wind low, very fine since 1400. I helped
Tom set out the traps for the first time because
I needed the pole to reach in for my samples.
I took samples #2 and 8 from the region
of permafrost in a. I think there is
permanent [illegible] for ~~going~~ getting
to near the root but the [illegible] in the
[illegible] by my [illegible]. Sample 29 taken to
[illegible] from a rough [illegible] [illegible] the
polygons. Clearly [illegible] [illegible] etc.

The wind is now out of the N, at
about 15-20 mph. The [illegible] on [illegible] at an
occasional snow flake is flying.

1530 Steve took my ~~samples~~ over [illegible] to
the ~~bb~~ [illegible] [illegible] to pick up Tom.
I had all 10 samples in the [illegible] to
dry them up a little and [illegible] get out
what [illegible] [illegible]. [illegible] I continued going
on through the 300 samples.

Turned in at about 2230 after reading
a paper on [illegible] by Coulson and glancing
at one by Freeman on a population study of
of ? Tipula spp ?. Both papers were
good but [illegible] [illegible] [illegible] thoroughly [illegible]
[illegible] on [illegible] [illegible]. Both [illegible] [illegible]
what I expect to [illegible] with the Tipulids [illegible].

Beaver
1987

24 June

0845 Started with one simple again. Spent the entire A.M. going through hummers. Saw [illegible] species.

1300 Blue Jay I got out the large net now and immediately the people down and [illegible] on the beach. Then we broke the boom into [illegible] camp and then set up for Black rail. [illegible] area. We now done girl interested in [illegible] [illegible] the rest and then left the [illegible] setting out a [illegible] trap.

1500 Took the South Road to [illegible] marsh [illegible] and I have collected 4 pectoral sandpiper ♂♂. Before leaving for home, a took [illegible] observations on the [illegible] birds.

24 Jn / Beach rail / Marsh / Pf / 0005 / 1500 / pc / SW / 2/8A / 4/1 / 1 / 7 pk's.

I checked the P. Finger nest located here earlier, and found nothing. Both adult birds were not observed. The nest has obviously been deserted.

The following [illegible] observation was taken on the Road to Central Island [illegible] after I have collected the 4 pectoral sandpipers.

24 Jn / Cent. Island / M / 0006, 1500, d / W / 3/8A / 5/2 / 0 / few pk / Jb + pb most [illegible].

24 June (cont.)

1500 (cont.) we drove on a few hundred yards to the coast and then I took the following feeding observation:

24 Jn/Cent. Marsh/m/007/1500/f/SW/3/A/2/0/2/feeding(??).

We continued on to central marsh trap lines #5 and on Beach Ridge. On the way, I came attempted to collect a Golden Plover, but the bird flew off after sustaining a direct hit. We looked for the bird some but did no good.

During this time, there has been considerable large floes of snow on the ice.

We stopped at a little floe of white ice and again I came attempted to collect a bird and got some pictures on them flew off! We tried again and the same resulted. Finally, with my 4 shot, I (probably had good bird pictures) was collected.

We then proceeded on to the Shelby trap running on lines 5 and 6. Two traps were out on the first swamp and one in both, so we moved from a short distance to a dry place.

Then, we took traps out from #2, 4, and 1 & 2 at this location and then left for camp.

1632 We stopped on Beach Ridge until the road crosses it from Cantwell moved, and

Bivouac
1967

24 June Cont.

100 cont.

1900

0830 ~~Late~~ breakfast ~~and tea~~ Wind [illegible] to
the traps were packed [illegible]
[illegible]

Bower
1737

2.5. [illegible]

1200 [illegible] Then

1330 I came to the [illegible]

[illegible]

[illegible]

[

Brown
1967

[illegible]

25 June

[illegible]

26 June

0500 At the camp, we broke down the tent and packed our things from since 5 days and West and S.W. camp. This work consumed up the time to 1200, in. Fatima came [illegible] to my and [illegible] in the [illegible] and this afternoon and I said I would [illegible] up. I decided make a few minor repairs on the lower top before we left. The bigger [illegible] attachment rotted cross bar holding the top tight, so I put a wooden piece of wood beneath the one windy day.

1330 At Fatima and I left for the [illegible] area to find [illegible] complete. The [illegible] is cool and [illegible] sun is [illegible]. The wind is from the N.W. [illegible]

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1937

[illegible] [illegible]

26 June [illegible]

1330 [illegible] [illegible]

[illegible] not as much [illegible].

[illegible] [illegible]

[illegible] again! [illegible]

[illegible] further south. [illegible] lying and waiting to come in. We [illegible] were

1545 very chilled. Spent the night [illegible] reading more literature on [illegible] by Freeman.

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1967

Alaska

June 27

27 June
0800

I arrived at the lab. and started on Report # 24 (See digitra study). I finished this report & then made ready to go. I with picked up his laundry & got lines # 7 and 13. Lt. Williams came up to the lab. On the way, we met Mary (Bob's girl) and dropped her off near the PX. Then Bob & I walked to the mess, & had a leisurely breakfast consisting in part of two eggs apiece. It was 10 o'clock after the 1st. The rest of the 11 was I spent in bed. Bob & I took a long walk. 1112 dinner after phone call.

1015

I started on Report # 25 (Mechanism of Injury) but soon realized the necessity of a much longer study, which I put off for a much later date. Lt. Williams told me that he had the lab. to himself, and wished to commence the study of injury by explosive mechanisms. I was with him when, after that, we quickly the injury conditions arising as result of exposure to remote messages. My cabin mate, and I was certainly exposed to them, so, we to 1. Delmarie the writer, & probably a better Hemi admirer of Lee Quinn of Tupelo - to Lemar, & Abbitt.

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June 27

27 June Cont.

[illegible], and their [illegible] of [illegible] 20 times [illegible].

3. To [illegible] "[illegible]" [illegible] each [illegible] "[illegible]" [illegible] [illegible] in [illegible] [illegible] [illegible]. To [illegible] [illegible] each [illegible] [illegible] to [illegible] in larvae, [illegible] [illegible] flying in the adults.

4. To construct life tables for each species and determine mortality of each stage of the life cycle, if possible. Much more will be said about this later.

1300 Steve and I decided to walk through the drum area and on out to Beach Ridge near the micro. met. On the way, we checked the marked nests of the Baird's Sandpiper. (These are noted in note book of nest numbers).

1515 We are presently near line #9 on the flat N. of Beach Ridge and we just located and staked a Golden Plover nest on which the ♂ had been incubating. We moved on south to the tangle foot traps. We checked the traps with the following being found. The insects were not identified but they are all definitely nematocerans. Trap #1 - 6, Trap #2

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27 June (cont.)

Trap #3 - 8, Trap #4 - 6, Trap #5 - 9, Trap #6 - 2. Steve scrapes the insects off the board with my knife. We notice that the 'tangle foot' material is coming off as a film or may be dissolving in the water that gets on the board. After checking the traps, we walked west around the edge of Fenny Lagoon to look for Sandpipers. We saw not one! The wind is quite! We decide to go back.

1615 We are now just south but about 50 yds west of the 44 Bridge, and we have just sighted 4 Buff-breasted Sandpipers, more than dispersed in the grass meadow. We watch them briefly for a while and then continue on in.

1635 We are about 20 yds (or possibly 30) from Baird nest #5 and we just found a new Baird nest with two eggs. Both birds displayed and called while we looked at the nest. We checked nests #'s 5 + 8 (see book on nesting activity), and also #7 to discover a Semipalmated Sandpiper on the nest. So this nest is definitely not a Baird! I let Pitelka west of me and went over to relieve Steve at the Buff's Sandpipers. We did not find two Semipalmated SP nest by noticing

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27 June (cont.)

through [illegible] I came in with Dr. Pitelka.

28 June I came to the lab. at 0830 and got my samples # 29 through # 36 out of cold storage prior to working them over. I decided to try for some pictures of Buff Breasted Sandpipers and what ever in the drum area this A.M. with Tom.

0925 After delays to get camera equipment ready, we went to the drum area about 0910. At 0925, the white-naped bird on the nest # 2(?) was noted for the incubation records. I took several photos of both Birds and semipalmated sandpipers. We came to the Golden Plover nest and she - he, in this case since the plumage was dark black and no molt was evident - preformed the distraction display with in 1 to 2 feet of us! We both took several pictures. The bird also approached us with aggressive postures while calling very loudly. The pictures should be excellent, I hope! We continued on south through the tussel area and I took several shots of a semipalmated sandpiper that had pow'nt + lavender on the legs. I also took several shots of a Buff-breasted Sandpiper, but the bird was not displaying, and feeding. I took two shots of a [illegible] feeding,

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Tundra

28 June (cont.)

1 ♀ and 1 ♂. Tom and I arrive at 11:25.

1300 I worked on lemmings again until 1515 on the Dr. Pitelka and Mr. [illegible] area. [illegible] Dr. Pitelka was [illegible].

I kept records of the lemmings [illegible] Fairbanks the story. I walked to the [illegible] the barriers [illegible] [illegible] Dr. Pitelka [illegible] I went on to the [illegible].

[illegible]

[illegible]

[illegible]

[illegible]

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28 June (Cont.) The weather very similar to yesterday except the southern days or clouds. A cold wind from the N and N.W. blew most of the day. Later in the afternoon, the clouds moved in once again with light rain and snow flurries. 2000. Ranger stations were passing at 2130.

29 June I spent the AM completing the samples and 2 June and then cleaned up the lab & workbench.

1340 I made the next check of the birds and one was unable to get the number free nest until on the return. Then I managed to get a good look at the bird. The weather is not very sunny. Low clouds are in evidence, occasional rain is falling. The clouds are moving and occasionally allows parts of the mtns. The temperature is probably about 38°F or so.

1500 After the next check we recovered the transmitter in the nest cup. Took out the cover and the antenna wire was still in a twist and took the following observation:

29 Jun, Bucking, Pf, 009, 1500, PE, SW, 4/00, 1/0, 0/pa.

The bird flew off after a few moments so I could get no more information.

I returned to the lab and Steve Mocken helped me cover the emergency cage with netting. We also replaced the broken [illegible]

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29 June cont.

[illegible]

2130 [illegible]

30 June

0845 [illegible] was the bird on nest #3. I returned to camp and made plans for the afternoon and setting out the emergence traps.

1300 Steve went to get the max-min. thermometer to make temperature checks [illegible]

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Alaska

Tanana 13

30 June (cont.)

1300 (cont.) of the emergence traps to see if the traps affect the microclimate as far as temperature goes. I, made sure the wiring cables on the rear of the traps, were alive, prepared his tangle foot, very hard work and took 2 days time. I decided to see if the traps at the rear edge tangle foot slips in, and then at the back edge. Control Mark on the

1505 The traps behind Beach Ridge are set out. I called this line #1, and the traps on #1, 2 and #3 running from S. to N. The traps are numbered on the tag piece. I took several photos of the traps and sites of the max-min thermometer. The first traps of these, after having been in their positions for about 1½ minutes was 3°F inside and 1°F outside. The thermometers are mounted inside a cardboard box

shaped like a trap. The cotton from powder in the thermometer is inside.

After pegging up the 6 tangle foot traps, we proceeded to set out each Beach Ridge tangle foot all in a straight line across #1, 2, and #3, in the way, since that a Golden Plover. At the tangle foot trap, I set one emergence trap out in the marsh in standing water. The next one on the

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30 June cont.

sloping part of steep ridge toward the marsh, on the side of a steep valley of the River. [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] 42 on [illegible] [illegible] [illegible] [illegible] [illegible]). After salvaging the grass, we started back to NRL and also checked the pit fall traps on the bluffs to central marsh. We stopped near three rectoral scat piles and have asked one to shot from so as to avoid allowing it to eat but we got up after a while and this it begins we could not rest. Since we [illegible] post it to pick up another bird. So, I suggested two, I guess. We checked the pit fall traps, and we had a P. gracilipes. Didn't in it according to macdon. We kept it for preservation later. We returned to camp at 1715.

2100 I checked the nests. The weather is fairly warm and has been all day. The wind is mostly away from the east. I got all but nest [illegible]

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1 July

1000 Prepared all of my sample sacks for gathering some more samples this afternoon. I decided to get 16 samples from Central marsh and 8 from the Beach Ridge area near Central Marsh samples. I also prepared to check the emergence traps that were set out yesterday.

1320 Met to coordinate use of the vessel with Tom. C. so I went to lemming lines #4 A and B and helped him set the traps on one line. We finished this at 1415 and then headed for the Beach Ridge micro net area.

1430 Arrived at the traps. The temperature on the outside thermometer was 40° maximum, and 35° minimum. The thermometer inside the trap read 40° max and 30° min also. Trap #3, 2 and 1 were difficult to collect insects from because of the vegetation they cover. No tipulids were found (see diptera study). We left the area after checking the traps.

1600 We arrived at the Central Marsh area. We checked the emergence traps and found no Tipulids (see diptera study). We took samples #37-45 in the ~~standing water~~ wet area 75% vegetation area of central marsh near the trap #1. The samples # 46-52 were taken from standing water areas of Central Marsh,

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1 July (cont.)

and samples # 53 [illegible] were taken from the dry, south slope of Beach Ridge. After sampling and checking the emergence traps, we returned to camp and supper.

1945 I went out to check the nests. I managed to get them all quite easily as it came time in and turned cooler.

2 July Got up late and went to breakfast. The day is clear and warm. The temperature at the ARL building is 52°F! I went out to check the Brant nest at 1000. Nest #1 had hatched and no young were to be found. The others are probably near hatching soon.

As I left the Brant area, two adult falcons flew in and lite in front of me on a barrel. Both flew off when I moved toward them.

1445 Tom C. and I left for Central Mound line # 4 H and B to set out the trapping traps. Both lines were on very wet, soggy ground. It took an hour to set the traps and then we returned. On the way, we stopped to collect a pectoral sandpiper, and a tell tattler sandpiper.

1930 Dan W. and I walked out to the Duck Creek East and north of the runway to get some duck heads. Saw several small flocks of Eiders on the way.

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3 July

I spent the A.M working on soil samples #37 - 40. Also prepared to go to the field with Steve M. after lunch to check emergence and tangle foot traps. I attempted to get the gas engine powered vacuum sampler going but couldn't do it. It needs cleaning and adjusting. We plan to take it to the shop this P.M.

1330 Steve was busy until 1400 so I tried to start the engine again, which I did, but could not keep it running. I prepared for this afternoons sampling.

1455 We arrived on the first area and I checked the emergence traps while Steve changed the tangle foot traps and set pitfall traps. The weather at this time is - low clouds but still visibility is good - 1-2 miles. A cold wind is coming from the NE. Temperature is 38°F at trap #3 line 1. I helped Steve finish setting the last of the 10 pitfall traps and then we moved on to Central Marsh. On the way, I took this feeding observation:

3 Jul/Central Marsh/1a/010/1500/$/sat/3/1A/2/0/Pk-jb

about equal. Steve took feeding observations on several Plovers here. We continued on to the traps. I checked the emergence traps and only #3 of line 2 had Tipulidae - two Pedicia demoei &

3 July (cont.)

adults. After checking the trangle foot traps, we come back to the exit point from central meadow at Beaver Ridge and checked the pit traps there. We found a number of Tundra - both Tundra and Meadow and several Sorbidinid and Sorex.

1900 We arrived back at the cab.

4 July I got up at 11:00 and came to the lab to work over ~~[illegible]~~ soil samples. By mid afternoon, I had completed the first 16 samples. I quit for the day on these. I still have 8 more to do tomorrow.

2030 I went with Tom to pick up line 5 & 6 and then we went to line 7 & 8 to check them. We found no lemmings in either line. Returned at 2230.

5 July Spent the entire day doing samples. I finished them all in the afternoon. At 0900, I checked the nest. Only #2 and 5 are going, and I could only check #5 because of the compost flying around. I manage to see both birds finally but couldn't tell anything about which was incubating at all so I left. First, stole Para. Jaeger on the area.

1900 I did the stinky boards for Steve - this took about three hours. Then I went to check the nests again.

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6 July

Went out and checked the nests again at 0830. The day is warm and sky clear. Slight breeze is blowing from the N.E. Many chironomids and some tipulids active on the tundra. I came back after the nest check and prepared to go sample the emergence traps, take more soil samples, and put out sticky traps.

1330 Steve M. and his sister and I went to the breeding area at Mud Hot. See Lysiteva Study for results of trap checks. I took sample #61-69 - See Lysiteva Study for details. Steve collected tipulids from the can traps and the ground. There appears to be quite a few around now. I saw some in my traps, but Steve's can traps had 40 or more in them. We continued on over to the lake to check traps. See Lysiteva Study. Took samples #70-80 here. We returned at 1645.

2100 I went out to check the nest again. It was wet, third trap has rolled in. Visibility is about 150-200 ft. I got right up on top of the bank so could check the nests easily. Returned at 2245.

7 July Got up late and then went to the lab. Checked the nests and then returned to skin the Parasitic Jaeger. This took until about 1430 since the bird was so fat and had to be degreased in gasoline and detergent. Prepared the sod

7 July (cont.)

samples for going through for Diptera larvae.

8 July Got up late. Worked on the P. Jaeger until noon.

1300 Dr Pitelka, Steve M, Tom. C and I took the aerial interval insect sampler designed by Steve out to the Beaufort Micro net area and set it up. It has no nets yet but they will be made soon and then put on. The unit is to be set into the wind (upstream) and sample insects at 4 or 5 intervals up to 6 feet. It appears that fins will be necessary to keep the nets facing into the wind since the picture is rather stiff. My cockroaching method is upset by being difficult to set, since the wind at the 0 to 4 foot interval will usually blow from the same direction.

1500 I washed the P. Jaeger skin in white gas again because it was still greasy and then attempted to dye it. I didn't have time to finish it and put it in the refrigerator until tomorrow.

9 July Got up late. Jim went to Beaufort. Had the 1-tagle foots for SM. and then returned from for return to the field. I also prepared the vacuum sampler for collecting emerged flies.

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9 July (cont.)

1430 Tom Custer and I arrived at Beechridge, Wiseman area to survey. The weather is a great most temperature about 50°F. Very cold wind. The Van camper is not warm so sleeping is very uncomfortable as we have rented it used. It is too hard to recall exactly the day's events when one person attempts to operate the camper. Besides, the companionship wasn't right in the camper. A good group for long hikes over rivers. See Daytime Study for more of report. After opening the valley floor, Tom and I continue to Beech Ridge, into Wiseman. Our initial Study area is the east one. It's a very rough area of big flat ridges, alluvial valleys and the steep sides. My client is a mining man but I realize the economics. They knew as we approached.

We returned to the hab. at 1630.

10 July Today a hyperbaric day. Home about 9PM when I came back to the hab. after breakfast I worked in the camper alone. Tom left for Fairbanks about returning the Ford pickup truck. Back now, in fact this is the first warm bed I've had for this project. A hyperbaric day more difficult because the project has promised me a new one.

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10 July (cont.)

1330 Dr. Kittelson and I walked the meadow [illegible] area. We saw, in some [illegible] like up and down the [illegible] depicting. We made out a [illegible] to investigate a [illegible] possibility. We found that it [illegible] wooded. We [illegible] it photographed it [illegible]. We [illegible] walked [illegible] that it was very recently active. We continued on to the pilot area [illegible] transect line. (See Alaska Diary) We [illegible] this area on line II. We found a [illegible] of trapped. It is a large [illegible] female. We also found two of the copulating ♂♀ of course! We left at 1630 for the lab. On the [illegible] with the transect method and [illegible] it a few [illegible] that before all [illegible] ends. Weather cloudy - slight wind from NE. 38-39°F.

11 July Spent the A.M. doing [illegible]. Dr. Kittelson volunteered to do some study bands so that will help out there. Tomorrow is the day to change them, so they'll love to be done by then.

1400 Went out with Jerry Dr. Kittelson to help out Lemming line #102 - 9 x 10. On the way, we saw 3 Hudsonian Curlews near Micro Met. (See sp. account). We set traps, and then examined some tundra flowers at line #102.

11 July (cont.)

1530 We have back to line 7x10 to set the trap. The mosquitoes are quite bad now. We returned to lab for supper.

I spent the evening doing sticky boards.

12 July. Got up at 0800 and ate. Then did soil samples until 10:00 and then did sticky boards. At noon, two remained to be done.

1300 Dr Pitelka did the two boards while I cleaned and re-gassed the boards.

1430 We (Tom, Dr Pitelka, I) left for line two first. The weather is warm, almost completely overcast and the wind is from the East at 15-20mph. We changed the sticky boards and I checked the emergence traps and then we looked around a little. We saw no birds, no noise - amazingly quiet! We drove on over to line I and changed the traps here. We saw a flock of Lapland Longspurs and several G. Plovers also. We returned at 1645.

2030 Dr. Pitelka and I discussed the Lapland project and I told him I didn't want to go on with it. So, I'm now going to continue work but I'll also be helping Steve and Tom more. I think this will work out fine. I can continue on this summer and think about other projects as I go. Dr. P. said projects could develop here or at Berkeley. It's all when I get there. It was a good discussion and I know where I stand now.

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13 July

0800 Got up and came to the lab. The weather is beautiful - about 50°F - slight west breeze + clear skys. I went out to check lines #1 + 2 - 9 + 10 since Tom C. wasn't up yet. On the way I took several pictures of a young Semipalmated Sandpiper and a Red-backed Sandpiper. On the first line - #1, number 5.2 had a 9(?) Golden Plover caught by the neck in a trap. The bird didn't move until I released the trap wire. I thought the bird was dead. As soon as the wire was released, the bird ran off and then flew. It obviously wasn't dead. I picked up one running on line #2 and then headed back to the vehicle. I photo'd a young Owl on the way. I checked lines #9 + 10 but yielded nothing. I returned to the lab. at 1130.

1400 Dr. Pitelka and I went to Micro. Met. Beach ridge area and established a transect from S to N. running from saturated and standing water habitat to dry, eroded polygon tops. We run this line for 63 stations. (See Lystra study). Returned at 1700

14 July Today, I worked on sticky traps in the latter part of the A.M. The first part of the A.M. was spent checking lines #1 + 2 - 9 + 10 for Tom. I found a Golden Plover in trap 5.2 of line I. I thought the bird was dead, but as soon as I let the bird loose from the trap, it ran off, and then flew. I guess

14 July (cont.)

I should have held it down. Steve could have used it for his outside shots. I finished checking the lines by 1130.

1330 Spent the afternoon working on stuffy heads and discussing the best way of approaching the bears. It was decided that, because of the weather, to be safe many hours would go by necessarily while we waited for the weather to improve. Meanwhile, we had a chance of Mountain sheep, and, if we could, we decided we would do that. Finally, we decided the weather was too bad. We spent the rest of the day in camp. Then, one moment we could see the sun and good weather, and the next moment it was pouring rain. Finally we decided that it was a good idea.

1900 We prepared the nets for the dens and staked by Morten and Gates but not by Hays on the Coal Ridge Mountain. We then Steve and I fished rubber tubing in the bottom edges of the nets so they would be easily pulled to the net frames. Steve, Edna and I went out for Control Mark to collect bits, hair samples, and examine nets. We found a pile of G. Fisher, Nelson's sheep, and a bighorn sheep, and took 3 or 4 horns - not two of them. Further, a dead sheep in the

14 July (Cont.)

of the DEW Line installation, we came across a large - 40-50 bird - flock of Pectoral Sandpiper. We chased them around in [illegible] with out getting a shot. It [illegible] more by [illegible] so I rode one out of the middle of it. Steve [illegible] walked on the [illegible] [illegible] the DEW Line installation. [illegible] and then another [illegible] in a small pond. Further, [illegible] Sandpiper and the [illegible]. We [illegible] the wind [illegible]. The [illegible] [illegible] so it [illegible] be [illegible]. We returned to the lab. at 2230.

15 July Steve and I worked on the last display boards and then began regrouping the birds. We made plans to take a few small and nearby [illegible] a transect for [illegible] also. [illegible]

1430 We left for Central Island and dropped off Tom and his [illegible] at [illegible] in Central Island and then we dropped off two more sets of Tom's [illegible] at the Sands. We changed [illegible] bands and checked the emergence traps. On the way, we found a [illegible] group with 4 young. I took several pictures. The weather today is the best we have had. Temperature is

15 July cont.

about 58°F - very [illegible]. Light wind. The Tipulids [illegible] [illegible] numbers of them. Steve [illegible] [illegible] also. [illegible]

1930 Steve, his wife and I went out to central marsh to run a Tipulid transect. The sky now is slightly over cast and the temperature is definitely dropping. Tipulid activity was low. On the way, we saw a Curlew Sandpiper (see sp. account). In central marsh, Steve collected 5 Pectoral Sandpipers and 2 took feeding observations - as below

15 Jul. / Cent. Marsh / a/011/ 1400 / f / w / 2/2 A / 3/2/0/Pk - 2 Ads + 4 young.

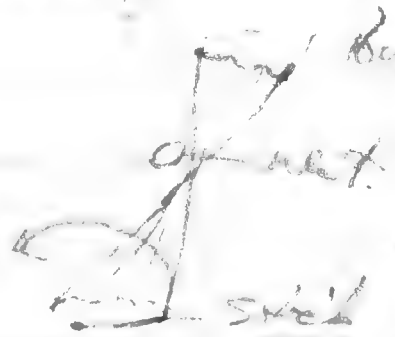
15 Jul / Micro Met. / a / 012 / 1700 / f / w / 3/0 A / 1 / pk - took 3 Tipula while watched.

15 July (cont.)

All further feeding observations will be in section of field book with "feeding observations". We returned to the lab at 2130.

16 July Got up at 0730 and came to the lab. The fog is right down on the ground and the temp is about 35-40°F. A fine misty rain is falling. Steve M. came in and wanted to catch birds - Dippers particularly, so I made some trap traps while he and Tom went to try and catch some. They returned empty handed with no birds. Steve and Tom went out and took down the mist net in the forest on the east side out to 50 ft to expand into a 40 ft, that drew blank out there.

1530 We arrived at the ocean to discover the bird net had indicating three again. We set the trap traps around the net and the net in the mist net on the opposite side. We waited for [illegible] to see if the birds would come in. [illegible] and we saw [illegible] in the trap. Next we tried to get the mist net. The bird came to the trap and settled by my other trapped at [illegible] net and wild to throw it to over the bird. Tried and finally corrected either pro to place it [illegible] Both were released.



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16 July (cont.)

Thinking the bird was [illegible] on the lab. [illegible] attention. We found that the [illegible] Sampling [illegible] form [illegible] in [illegible] put both in a big room.

2130 Tom and I went out to [illegible] the [illegible]. [illegible] set out and 40 birds were counted [illegible]. We returned at 2230 [illegible] Day.

17 July Came to work at 0800. Steve has many plans for afternoon work, so I spent the a.m. on my notes and on the [illegible] funnel samples. (See Diptera Study).

1300 The sky is starting to cloud up now and the temperature is dropping. Looks like rain. Steve and I left for [illegible] marsh. On the way, we stopped at the Golden Plover nest at AMS. The nest is apparently active (young somewhere) because the adults are very excited by our presence. We went back to the weasel but the track came off in a big ditch so we walked on from there. We went to [illegible] marsh, and took several feeding observations on sandpiper. (See Feeding Observation section).

We stopped and checked up the Golden Plover nest with 4 eggs in [illegible]. It looks like these birds [illegible]

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17 July (cont.)

capture with the mist net. We made photographs of my this, this evening. We then returned back to the first Plover nest site and tried to locate the young at night without success. We got the trap on one side by laying out of the brace wire come on in to the lab. On the way home we collected some more of the Lupine. Lovely but white purple lupine. Steve collected a Lupine and a white purple flower came into the car. It was cloud continuously this afternoon and looks like it will continue to do so.

1930 Steve and I assembled the bird catching gear, the mist net, stakes and handle, and headed for the Plover nest near AHCS. It is still raining and very chilly -35-36°F now. After several attempts, we located one, beautiful downy young. I was very much impressed by the very bright golden color of the back nonpatch (see sp. account.). We were going to tether the chick but since he sat still, we set the net up over him and then Steve returned to the weasel while I waited with the net. The first bird came in within 2-3 minutes and I caught her easily. During the waiting interval the chick peeped continuously. We reset the

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[illegible]

[illegible] 10 [illegible]

[illegible]

2230 [illegible]

[illegible]

18 July [illegible]

[illegible]

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18 July cont.,

took down the wind set, moved the 3 [illegible] [illegible] [illegible] back up [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. We [illegible] [illegible] [illegible] [illegible]. We continued [illegible] on Central [illegible] [illegible] and changed [illegible] [illegible] there and checked the emergence traps. We returned to the lab. Steve checked the [illegible] nest along the way and whether third of the pair from which one was removed the previous (evening) was incubating. [illegible] at 1815.

2130 I helped Steve count Tipula and Pedicia from can trap samples taken earlier today. Turned in after this.

19 July Planned to go into the field this afternoon. For the am though, I helped Steve separate out ♂ of Tipula and Pedicia that were collected in cans during the week he was away.

1300 I prepared to get more sod samples. Collected all the larvae from the samples in the Berlese's now (See Diptera study). Tom, Dr. Pitelka and I left for lines 4A-B at 1400.

I wandered off to take feeding observations while Tom set his lines and Dr. Pitelka went to Footprint Lake. I returned at 1600 to help Tom since I saw only a few birds. We then took sod samples (16) and returned to the lab. Steve and I placed the samples in the Berlese and

19 July (cont.)

then went to supper.

20 July Got up and ate. No one was in the lab. Early so wrote notes. Steve came in at 0845 and we started on the sticky boards. I counted the II set. This took until noon. Steve has decided to run habitat analysis transects which will give an idea of the total area. Each transect is 1 kilometer long and currently planned are 4?.

1330 Steve and I made ready to go. We chose at random to do a line from the north extension of North Meadow Lake west to North Slough south of Honey Bucket Lagoon. Dr. Pitelka, Steve, and I started the line by walking 5 meters (5 paces) and then making a habitat analysis in the same manner of a feeding observations. We took 100 points in this manner, each trying his hand at it. The 5 paces was abandoned for 10 paces for ease of sampling. We did 50 ~~paces~~ points and completed the line at 1715. Steve and I planned to do 4 line/day for the next six to complete the run. Notes of interest on the way - Pitelka found a very young ~~Pectoral~~ (?) Sandpiper that was apparently abandoned. Dr. Pitelka collected it.

The day was cold and windy. The wind was out of the west and the temp about 40°F. The sky was overcast to clear throughout the day.

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2/July.

0830 Steve M. and I rode with Tom out to the FAA buildings area to run habitat lines. We started on an E.-W. line from "Honeybucket Lagoon" to a point mid-way (on the west side of the road) between the Beach Ridge and the road. Then, we headed south to complete another kilometer transect. We then split up, Steve going to finish the first line on the East side of Honeybucket and then head south - I took the coast line closing the square and then turned north to meet Steve midway on the line to close off the east side of the square. This took until noon. We closed within one meter on the last line. Tom C. arrived to pick us up while we were still working on the line so he took feeding observations for several hours and the birds in the area.

1300 Steve and I cleaned and regaged the stately boards, then gathered material for doing vacuum sampling, can trap collections and establishing new can traps at Cat Marsh, sod samples and re-establishing of the wind net. After getting all this gear together, we left at 1430 for home. On the way, the weasel broke "Boggie" so that had to be fixed before we could go on. The vacuum sampling went well while we waited. The wind is from the west

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21 July (cont.)

and has been all day. The sky is overcast but low clouds are staying to the south of the area. A few low clouds have moved in the past few days. After the barge was repaired, we went to Cape Lisburne and checked the emergence and cores and then put the gravels and nets back in the wind net stand. The outfit is working good now. The gravels hold the weight of the upper stages of the cores so the wind can't turn them now. We left for central camp at 1730. There we changed airlift stages, set a row of cores, checked the emergence traps and the collected seal samples - see spider study. On the way back, a fog rolled in and a large flock of eiders flew over us. It was an impressive sight. Steve hurt his back so we won't be doing any "night" work in the field today.

1930 I came back from supper and put the seal samples in the barbecue funnels.

2200 Tom & I came back from checking the line and had a red back sandpiper that had been caught in a trap. Its leg was injured but the bone wasn't broken, so it may make it. Turned in at 2300.

22 July Got up at 0800 and went to breakfast. Rather cool this AM - 38°F or so, but relatively clear.

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22 July (cont)

Spent the AM in the lab. Steve was interviewing 2 people from the State (Boyds - John Hyslers). We plan to run transects this afternoon.

1330 Steve, the Boyds (Mr & Mrs) and I left for Central Marsh to run at least 2 (each) transects. On the way we looked at a Snowy Owl which the Boyds had visited to all. It's windy and chilly @ 36°F. Steve and I each ran two transects. Our closing point was not too good this time, but not far off - about 100 meters or so. We returned to the weasel at 1630 and then came back to the lab.

23 July

Did transects with Steve in the AM over by ~~[illegible]~~ Goth creek area. We returned at noon. I helped Tom bring in his III A and B in the PM.

1730 Steve and I went to Micro Wet area to run some transects. I went due south and he west. I took 16 soil samples along the shore of N. Meadow Lake while Steve completed a short line between the lakes. It's windy - from N.W. and cold. We completed our transect work and returned to the lab. Noted on the way in that the wind had blown off one of Steve's nets on the top of his wind net system.

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23 July (cont)

When we arrived back in the lab, we put the bed samples in the plastic bag and recorded the change.

Dr. Pitcher leave remarks so well that he and steve of my plan to leave at the airport.

24 July Dr. Pitcher at 9 a.m. is anxious to get at the next [illegible] region in the field to [illegible] the [illegible] the [illegible] bank, [illegible] [illegible] [illegible] at both [illegible] I and II. [illegible] [illegible] on [illegible] [illegible] [illegible]. In the afternoon, we had trouble with the [illegible]. We [illegible] [illegible] again. The weather today is [illegible] than last [illegible]. Both [illegible] are coming down into [illegible]. [illegible] [illegible].

25 July Feel pretty [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

The weather is [illegible] [illegible] [illegible] [illegible] [illegible] in the AM, [illegible] in the afternoon. We completed [illegible] each [illegible] [illegible]. We had to [illegible] the [illegible] [illegible] the side [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible]

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1967

[illegible] Journal [illegible]

25 July cont.

in for lunch. We did transects in the afternoon also. This cold is about to put us both out. I slept about 2 hours this afternoon and went to bed early also.

26 July Really feel bad today. Did transects all day. Weather clear and warm. Windy all day long. AM transects were done by Eileen Logan. Saw two [illegible] loons there (see [illegible] records) [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] a [illegible] [illegible].

This afternoon [illegible] [illegible] the [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] march. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 30 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. I feel like I'm ready to collapse. This has been a bad cold so far. We returned to the lab at 1030. I went to bed early.

27 July It's raining this a.m. and cold. [illegible] [illegible] I prepared to take [illegible] [illegible] [illegible] and change the [illegible] [illegible]. We have a new set of [illegible] to put out this time. The old ones are all [illegible] [illegible] [illegible]

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27 July

28 July

29 July I finished the P. Jaeger in AM. It came out fairly well. This morning has been foggy and cold ≈ 34°F. By noon, it appeared to be lifting a little. We planned to go to the

29 July (cont.)
field this afternoon.
1330 Left for Central Marsh to take sod samples, pond edge samples for large red chironomids and take feeding observations. The sky is overcast but not low. A cold wind from the NE is blowing about 15-20 MPH. We walked east toward Elson Lagoon out on Holmes' Morass looking for a plover that could have young that we could catch for Steve's needs in his Fairbanks project. We saw several small flocks but no young.
We returned to the weasel and took 16 sod samples with care and then took a pan full of disturbed pond edge material to look for large red chironomids. We were able to find the larvae by stirring the mud with our boots because they float to the surface when this is done. We returned to the lab at about 1630. Steve and I discussed a schedule for sod and pond edge samples. We decided to get sod samples once every six days and left the pond edge samples undecided.

30 July Counted the sticky boards in the Air and re gassed them preparatory to running them this P.M.
1330 Steve and I worked on the boards some more. We left to change them about 1430. The temperature was about 40-42 °F, light wind and overcast sky.

Beaver
1967

Alaska

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30 July (cont.)

After we charged the boards, we took some feeding observations on a Red Knot, several Plovers, Pectoral and a L.B. Dowitcher. Steve took some photos of some Semipalmated Sandpipers and I took a photo of an Old Squaw. We then went to bric II and charged the tangle foots there. On the way, we saw several flocks of Semipalmated Sandpipers in Central Marsh. I collected 5 of them for Steve. The birds were feeding on the road. On our return to the lab., we picked up 8 soil samples along pond edge and trough bottom at the Beach Ridge crossing to Central Marsh. We saw two Parasitic Jaegers working together to catch a Sanderling. (See p. account) But they failed. We returned to the lab at 1730.

31 July We charged 8 of the Central Marsh soils for the 8 pond edge & trough samples taken yesterday. Spent part of the A.M. writing notes.

1330 Steve, Tom, Don Kangas (assistant of Dr. Strong) and myself left for Nunivak in the vessel. On the way we stopped at the Devil Cove and I took several photos here. We then continued on with two of Steve's wife's brothers being added on. We drove only a short distance — 1/8 mi. — when we saw a large flock of Sabine Gulls. We approached to take pictures. A wounded King Eider ♂ was on the shore near the S. Gulls, and he swam out into the water. Steve shot him twice and

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3 July (cont.)

the Eskimo boy went out and got him. We took several pictures of the S. Gulls, of which there was a large flock (30-40 birds) and then drove on towards the point. We saw many Oldsquaw & young R. Phalarope, some red backs, and Sanderling along the way. We came to the first pond and saw a large flock of Arctic Tern. We took pictures and noticed then a Kittywake with very dull plumage sitting on the ground, apparently sick. We all took pictures very close and then the bird flew off! Steve collected it and we decided it was a young kittywake. We came upon another bird sitting on the dock the same as the first and Don Kangas captured it by hand. The bird was healthy, just tame. We let this bird go. We couldn't cross the pond because of the tide, so Dick took some plankton samples while the rest of us looked at some large Jellyfish that had floated on the beach. Some were almost 1 foot in diameter. We decided to leave. Arrived back at the lab at 1630.

1 Aug. Tom and I left for Elson Lagoon at 0845 to look for birds. We drove through Central Marsh and then turned N. West on a road marked

1 Aug. (cont.)

"wagon trail." As we approached the weir, a boggie broke off, the same one that earlier. We abandoned the vessel and walked the shore of Elson Lagoon. We saw Arctic terns, but all were too far out to see well. A bobtail jaeger ran along the shore. We came across a family group of Lilly Tundras and took several photos. Further on, we came to an Eskimo camp. They (?) told about a yellow-billed loon. The bill was much larger than the common loon but very similarly marked. We decided to radio on some other means back to the lab. We saw 3 Black-bellied Plovers, but couldn't get closer to any pair. We also saw several red-backs. No large flocks of shore birds were seen. We arrived back at the lab at 1230.

1530 Steve and I went out to the reefer row to collect large red chironid larvae. This was done by stringing up a floral bottom and the collecting the larvae in a small dip net. While doing this, Steve told me of the set up for my going to Meade River, Barrow and Cape Thompson starting this week. He mentioned the possibility of my looking into a project involving the Red, Northern and Wilson's Phalaropes and

1 Aug. (Cont.)

predator prey dynamics. He said I would have about 2 days at each place and would start at Meade River with Tom. Next will be Umiat with Steve and Bob; Cape Thompson with Norton and Wilson. I have seen Norton and Wilson have been together at Cape Thompson. The project sound interesting, I hope I can get some insight on the problem on these trips. We returned to the lab. after collecting a good number of larvae. I contact my colleagues - 3:00 Sage and Chironomids.

2 Aug. Steve said we may leave this P.M. or tomorrow AM for Meade River. I counted and classed the tangle foots and this ended the soil samples. We change utility boats this afternoon and we plan to pick up a few soil samples.

1300 I asked Steve if it would be possible to stay longer at any of the places planned and he became rather upset. Apparently he is rather touchy about this trip. I dropped all discussion of it. We went out to change the tangle foots. It is warm, a south wind is blowing and it has brought mosquitos with it. A very light rain is falling. Temp. about

2 Aug (Cont.)

52-54°F. We changed the boards at site I, checked the wind net and can traps and then left for the second line. We changed Stieby boards 5 & 6 - checked the Emergence trap #3 and then took 8 sod samples from central marsh. I asked Steve about the frajes and why he become angry when I asked about them and he is on edge about them for personal reasons. We left it at that. We returned to Beach Ridge crossing and took 8 more cores from pond edge and troughs. When we were almost to the main road, the track slipped off the wheel, so we walked in. I took several feeding observations on Red backs and Sanpipers in the ponds by Deeper now. We returned to the lab. at 1630.

3 Aug. Tom and I prepared to go to Meade River some time this morning. The clouds are low and it looks like they are setting in.

1445 We finally left for Meade River. The fog had rolled in and prevented leaving earlier. We saw several large herds of Caribou on the way down. (200-300 head in each). We arrived at Meade River at 1530 and no keys to the buildings had been sent along so we will have to wait to eat until the pilot (Shepard) brings the keys back. The bunk house was open so we set up in there. We decided

3 Aug. (cont.) Meade River

to go west to the site of the original Eskimo village while waiting for the boy to return. We followed the river along for a ways. The vegetation here and elsewhere is much taller and greener than that at Barrow. The willows here are small bushes (along the river) but up on the slopes, they are prostrate as at Barrow. There is much more terrain relief here. The bluffs over the river are 55 feet high in places. Tom and I scared up a family group of Willow Ptarmigan and we followed them along for a short distance. As we reached the old village site, which is on a high bluff over the river about 1 mi. west of the ARL camp, we saw an Arctic Ground Squirrel on a sandy mound. It stood erect in the manner of a Prairie dog but gave no call. On the return trip we saw a Black Bellied Plover that acted like she had young. We arrived back at camp at 1730. Still no eggs. Tom unscrewed the top on the kitchen and we went in and ate.

1830 The weather this evening (and afternoon) has been overcast and warm (57-60°F). The mosquitoes are out but not bad. A slight breeze is blowing from the west.

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1967

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3 Aug. (cont.) Meade River

We decided to boat along the river to collect fossils and look around. We saw a savannah sparrow and also a yellow wagtail along the river. We found some nice fossils of coniferous plants that Tom said a friend from U. of Idaho said were Cretaceous in age. We returned to camp at 2130. The kids arrived as we ate. We turned and turned in the night. We turned in at 2400 after writing note.

4 Aug. Got up late. We wanted to go up river, but couldn't get the motor running so we went east a ways and then turned south west. The tundra is "lumpy" in little tussock like clumps. This made walking difficult. The weather is clear but very windy (from North) and about 55°F. On the way, we saw a wounded caribou and Black Bellied Plover. We walked S.W. until we came to a large (3/4 mi wide x 1 1/2 mi long) lake. The shore was covered with big lightly colored snail shells. I collected several. At the lake, we saw a ground squirrel - citellus undulatus. We also saw several arctic loons on a small lake. One semipalmated sandpiper flew by. Along the shore of this small lake, we saw 3 Red backs, 5 Pectoral, and one B.R. Plover

Beaver
1967

Alaska Journal #2

4 Aug. (cont.) Meade River

Later on, we saw a young Red Pelican - left could fly. A strange sight for this day and never appeared on land in. We saw the wounded caribou on a small peninsula on a low rocky coast pine and decided to try and get picture of it. On the way back saw at a small cabin nearby. We took picture of the caribou and then turned north round the camp. We came to a small lake, the S. side and the north across it, we saw down. Called on the white cabin & knocked loud. Apparently the S. side are more concerned about our presence in the area while we were a good 1½ mi from the lake where the young are. The adults are not doing very close now. We returned to camp after photographing the dirty dogs.

5 Aug. Today was clear and windy - Temp. about 50°F max. We packed up camp and prepared to leave. Waited 2 miles got stuck by cabin hunter across the river. Our boys arrived at noon so he and Tom and I went east along the river. We saw the one wounded caribou that the cabin had shot and took the

Beaver
1967

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5 Aug (cont.) Meade River

AK 30-06 to kill it. Don Kangas returned with the rifle and shot at the animal across the river twice and missed both. Next Tom shot twice, missing the first and hitting the cariboo directly in the rump the second. The cariboo then swam to our side of the river where Don K. shot it through the head. We continued on east along the river and ran into a large herd grazing possibly a couple of hundred Harrigan. Further on we saw a bull moose, caribou sign, and saw a bear feeding along either side of the river. We returned to camp at 1630 and ate. The plane came at 2100.

6 Aug. Plan to go to Umiat today at 1000. I have all my gear ready to go. I checked the Barlese pump. Looks like we will leave later than 1000. The day is clear and it's windy ~ 15 MPH from the East. Temp. about 38-40 °F.

We left for Umiat at 1245. Clear flying all the way and arrived at 1430. Met Dr. Spofford and Clayton White at Umiat. They are working on the falcons of the area and pesticide movement through the ecosystem.

Beaver
1967

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6 Aug (cont.) Umiat

Steve and I looked around the place with Clayton & Dr. Spafford on the way to their mammal trap line. Saw a Northern shrike on a wire. Steve and I separated from them and went south. We saw at first about 4 yellow warbler, 1 at second place, 1 white crowned sparrow, 1 fox sparrow, on a small pond, 4 Green-wing Teal, a willow warbler, lesser, and tree sparrow. After supper, Steve and I went with Clayton to check one of his lines. He had captured Microtus oeconomus, Clethrionomys rutilus and Lemmus. We talked about going up the Colville River tomorrow to some falcon eries. Saw 2 Northern Phalaropes on a pond on our way back. Steve and I piped up an old Air Force tube so we could haul the boat to the river and then we each set up a rutilus. Dr. Spafford and Clayton have two young Peregrines in the lab that came from a nest that they had collected the Ad. F from. We turned in at 2430.

7 Aug. The weather this AM is foggy and cold - 33°F. We walked the trap lines with Clayton, got water, and then prepared to take the boat up river.

7 Aug. (Cont.) Umiat

1200 We are now heading for the river. The sun has come through. We launched the 14 foot alum. boat and started the engine. We had trouble at the first rapids but after several trys, found deep water that we could run in. Saw a flock of immature Canada Geese and 1 caribou on the 6 mile trip up river. We went to a cliff with Rough Legged Hawks, Peregrine Falcons and Gyrfalcons nesting on it. The Rough Leg had already left the nest and were flying. 4 young Peregrines still remained on their nest ledge. We land & took pictures of both the young and the ad. M & F. The cliff was a loose shale and mud mixture that was rather dangerous to climb on so we went back to the boat and floated down to the Gyrfalcon nest. Only one bird was in the nest and it was ready to fly and it did so after we took pictures. The parent birds did not appear. We hunted for fossil-eared plants at the cliff base and then started back down river at 1545. On the way, we saw a spotted sandpiper so we stopped to check it out. It moved up a side channel. We found tracks of Wolf, Fox (Red?)

7 Aug. (Cont.) Umiat

Ground Squirrel, Caribou, Moose + Grizzly Bear

We continued on down river. At the last rapids, we hit bottom and stripped the gears in the motor.

1730 Steve and I went for a long walk north east of the camp and came upon 3 Caribou. Steve wanted one so we returned to camp for the rifle and the truck. We returned to the area and saw the Caribou. Steve attempted 6 or 7 times to collect one but the rifle shots high plus the fact that it was nearly dark so he failed. I shot twice and was only able to knock off an antler. We followed the animals until they crossed the river to the south. We came back and ate and then turned in at 2100 8 Aug.

8 Aug. Got up at 1000 and ate. Steve and I went exploring about camp. I located a Northern Shrike catching bees and watched him until 1500. A plane came and left Gordon Maclean from Rhodesia South Africa and Mrs. Spoffard. G. Maclean had worked with the sand Grouse in Africa and placed them in the Charadriiformes from Calymbflame. The plane returned for Steve and me at 1645. Arrived in Barrow at 1830 in heavy fog. Noticed the

Beaver
1967

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8 Aug (cont) Unwalt.
barges are off shore and unloading has begun.
It's cold 33°F here in Barrow with fog.

9 Aug. Got up and ate. A heavy snow has been falling for about ½ hour. We are to leave for Cape Thompson today sometime but the weather may not allow it.

1200 Weather still bad. Doesn't look much like we are going.

1630 Flight called off. I changed my reservations to Friday A.M. from Sat. so I'll leave then. I have a Captained Jeep to drive around tomorrow.

D. Beaver
1967

Alaska

Insect Sampling

Beaver
1967

Lyttons
Survey

15 June — Sample #1 [illegible] in [illegible] S. of Camp. Taken [illegible] of [illegible] edge of a [illegible].

Cover of surface: 50% Gramineae 100% moss

16 June — Size of sample 35 × 20 × 15 cm.

1. 1 Collembola [illegible] 1

2. 1 Diptera

[illegible]

3. 1 Diptera larva [illegible] 6 mm B. S. [illegible]

4. 1 Diptera larva [illegible] 10 mm. [illegible] in [illegible] #2 not [illegible].

5. 1 Diptera larva 2 x 3 [illegible] 15 mm [illegible] in [illegible]

6. 1 Diptera larva [illegible] 2 x 3 [illegible] 15 mm [illegible] in [illegible]

7. 1 Annelida — [illegible] 10 mm. [illegible]

8. 1 Diptera larva — 1 6 mm — 2 mm [illegible] similar to larva [illegible] #1 — [illegible] #1 1
Chironomidae?

[illegible] #3 !!

Beaver
1967

[illegible]

16 June [illegible]

9. 1 [illegible] [illegible]
[illegible] [illegible]

10. 1 [illegible] [illegible]
[illegible] [illegible]

11. 1 Amelia [illegible]
[illegible]

12 1 [illegible] [illegible], 13 mm [illegible]
[illegible] (1) Tipula [illegible]

13. 1 Diptera larva [illegible] 1 mm [illegible]
[illegible] specimens.
[illegible] Tipulidae - Pedicia
[illegible] [illegible] 5 mm [illegible]

14. 1 [illegible] [illegible] [illegible]
[illegible] 29 mm. [illegible]

15 1 [illegible] [illegible]
[illegible]

No. 1 Amelia - 5 mm, 3 mm [illegible]
[illegible] 3.

Beaver
1967

17. 1 Nematode - 5mm. 1mm 5.
[illegible]

18. 1 [illegible]
[illegible] 7.

19. 1 Diptera ~~[illegible]~~ 10mm. 1mm. [illegible]
[illegible] #[illegible]

20. 1 Diptera pupa 2mm 1mm. 6.
[illegible] #2

21. 1 Nematode 5mm. 1mm. 2.5
in vial #3

22. 1 Annelid 10mm 1mm 4.
[illegible] in vial #4

Beaver
1967

Alaska

Dipteria
Skinner #4

15 June Sample #1 from Barrow area, 1mp
of Barrow polygon. Vegetation:
Moss are dominant: Sphagnum - active surface.
Moss with this configuration: - ≈ 1% of surface
and grass - Lupine present? Hemel dumps.
Size of sample 160 mm. X 80 mm X 80 mm.
Items found.
1. Black paper - lay from surface to 1 cm
in depth.

24. 1 larva, 2 mm from surface - 3.5 mm long.
Exception - Tom? - [illegible]

25 1 pupa 1 mm " " 2 mm long.
Dimension: [illegible] in lot #2 [illegible]

17 June 26 Diptera? larva. Upper 1 mm black
[illegible] in lot #6 (separated from lot #6.)

19 June Sample #3 from North end Street of
AA - 3 intersection, Barrow Alaska
From [illegible] specimens [illegible] available.
The basic problem may [illegible] pens
Microtemphaenus [illegible] over 3 species of Tipulids
in the tundra. My main concern is for these
three sp. and further work will be [illegible]
as pertaining to life origins, [illegible]
normal and Microtus [illegible].

Sampling techniques

S. MacLean and I discussed the needs of

Beaver
1967

Diptera
Study 5

19 June cont.

A insect [illegible] for his [illegible] more.
The [illegible] plan is as:

1. Compile [illegible] for all size stages of [illegible]
[illegible] size [illegible], to
[illegible] [illegible] [illegible] and
[illegible] of [illegible] for all
the [illegible] [illegible]. [illegible]
[illegible] [illegible] [illegible].

2. [illegible] [illegible] about
[illegible] [illegible] [illegible].

3. [illegible] [illegible] the [illegible] of
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible].

4. Determine the [illegible] [illegible]
[illegible].

5. Investigate the [illegible] and
[illegible] [illegible] [illegible] [illegible]
[illegible].

20 June
1330

Received [illegible] [illegible] for the [illegible] on
[illegible] [illegible] [illegible] [illegible].

Beaver
1967

Diptera
study

17 June | Sample # 3 Open Flat, standing H_2O, AAC [illegible]
Several nematodes - not sorted.
1 [illegible] - [illegible] in [illegible] - P. [illegible] ⊛

2 June | Several nematodes - not sorted.
Sample discarded.

⊛ Head capsule width 0.3 mm. Length - 0.05 mm
Depth D-V - 0.1 mm Tot. Length. ≈ 6 mm.

Beaver
1967

Longitude
[illegible]

21 June Sample #4 Open pool - staining H_2O, RHC
[illegible] - Cerio-fossa -
1 2 tonnie - [illegible] - [illegible] B.
[illegible] cap. [illegible] - 0.65mm. [illegible] - [illegible] mm.
[illegible] - 0.15 mm.

1 Chironex - [illegible] 6 mm [illegible] 4 mm. B.
[illegible] [illegible] [illegible] [illegible].

3 [illegible] [illegible] - [illegible] [illegible]
[illegible] - [illegible] [illegible] [illegible] [illegible].
[illegible] [illegible].

Beaver
1960

Capitina
Stacy

8

21 June Beach Ridge, 200 yds. west of Mission, Lower Alaska (collected today) (210 yards over bridge 5-3)

Sample #5 Taken by Cora Women,
(Diameter = 153 mm) Burrow of a hook pogon.

1 Spider - (Saved for mention)

2 Lepidurus apex - Macrobenthos 7 mm.
both mm B.S. Save for Mention.

1 Chironomid larva from sep 3 mm. B.S.
Save for Mention.

1 Annelid 2 mm B.S. Saved for S. Mention.

1 Musci Larva 15 mm long 2.5 mm
B.S. Saved for S. mention.

Sample Discarded

Beaver
1967

Upper
Study

9

22 June Sample #6 (collected 21 June).
Dried legs, wings, head & thorax [illegible]
[illegible], Kenya. Sample same as sample #5

1 unidentified larva - 4 mm. [illegible] mm [illegible]
[illegible]

1 unidentified larva [illegible] 10 mm. long.
looks identical to above - placed in vial #7

1 nymph of Cicadoidea Cicadetrinae Platypedia
Cotton - based in above vial. [illegible]
[illegible]

1 Chironomid (?) 4 mm. [illegible] 1.5 [illegible] [illegible] for
Morton.

1 Chironomid 3 mm. [illegible] 1.5 [illegible] for
Metcalf.

7 Aphids [illegible] 1.5 [illegible]
per [illegible].

6 Spiders [illegible] per [illegible] - from [illegible]
[illegible].

11 Unidentified [illegible] larvae (10 & one)
4 to mm [illegible] 1.5 + mm [illegible] [illegible] in
vial #8

Beaver
1967

Diptera
Study

22 June

Sample #7 (collected 21 June)
Beach ridge near Mica Mtn from top of high polygon covered with grass. Sparse moss undergrowth. Soil dry + gray brown colored. 50% grass
25 Amelids most about 20mm B.S. sieve for Median.

2 Spirobs - sieve for median - juvenile surface smoothed

Beaver
1964

Letter
Page 1

23 June Sample # 8 [illegible]
[illegible] Nat. [illegible]
[illegible] with [illegible]. [illegible]
[illegible]

3 Amelia - [illegible]
[illegible]

[illegible]

Beaver
1967

Diptera
Study 2

23 June Sample # 1 Coastal Fire #1
Reel Lake near Mica Mt. rain from
trough between polygons. 50% grass - understory
moss all under. wet but not saturate.

1 P. lamai 7 mm. 3 mm w.
Head length 0.7 mm. Head 0.4 mm. Eyes 2.0 mm
Seed for mites.

Sample discarded

Beaver
1967

Upper
Pony 13

24 June

Compt #13 collected 24 June
Beach little near mineral lake from
trough between polygons, 50% grass, moss
under story - saturated.

1 P. hamai [illegible]
had empt [illegible] with [illegible] left.
Sent for median. [illegible] the measurements
cannot be taken on live specimen therefore,
the measurements will be always until [illegible]
to take them.

2. P. procilicyla [illegible] from [illegible]
Sent for median. Both from [illegible]

3. Chironomid larva. [illegible] 570 nm.
Sent for median. [illegible], from [illegible]

4 Chironomid pupa 570 nm - [illegible] for
median - All from Rachel.

Sampl [illegible].

Beaver
1967

Diptera
study 14

24 June Sample #11 (collected June 21)
Beach ridge near Niwot Mt. from top of
low polygon. 50% moss [illegible]

1 Amelid - Sorted for [illegible]

[illegible]

Beaver
1967

Diptera
Study 15

24 June Sample #2 (collected 21 June)
Beach ridge near Mine Mt. From top of
Leo ponger. 50% grass - few herb. plants.
moss underlying - wet (not saturated)

1 T. carinifrons 23 mm. [illegible] mm ♂.
Saved for Marston.

9 Amalita [illegible]
Saved for Marston

1 [illegible] [illegible] 3 mm. [illegible]
[illegible]

Saved [illegible]

Beaver
1967

Diptera
Study 16

25 June Sample #13 (collected 21 June)
Beach ridge near Nicao Met. Even flat area with standing water on it. 100% grass - some moss underneath

2 Tipulid pupae - Larvae live. Tipula simplicis.
A.16 5-7.8 mm 1.4 mm B.2 Sent for identification.

1 Tipula caripiana larva - 10 mm, brown
Sent for identification
1 pupa "

2 Muscoid - hypture pupae about 10 mm L.
sent for Matter. Sample discarded

Beaver
1967

Diptera
Study 17

24/June Sample #14 (continued) June,
Beach ridge near West Mt. Fen flat area
with standing water. 11 C°C pos. Some rows in mouth

3 Ameria all about 1.5 C mm long
Saved for Sweden

11 Chironomus larvae - all about 4 to 6 mm.
Curled. Saved for Sweden

Sample discarded.

25 June

Beaver
1967

Diptera
Study 2

25 June Sample #17 (continued from)
Control Mean Map info # Tenac, Beaver
Cape S. slope of the Mean cage, 25 ft
from snow mountain 7 [illegible] out of
this — hit

Sample
[illegible]

Beaver
1967

Diptera
Study 21

25 June Sample #18 (collected 21 June)
(Same area as #6) 57% gross wing
mass emergent, wet

0

Sample discarded

Beaver
1967

Optima
Study 22

25 June Sample # 19 [illegible] 21 June,
Same as #17 - >25% [illegible] - heavy
more [illegible] - [illegible]
1 [illegible] [illegible] [illegible]
used for [illegible].

Beaver
1967

25 June [illegible]

[illegible] #1. [illegible]

[illegible]. WJ

2 Amoeba [illegible]

[illegible] for [illegible].

Sample discarded

Beaver
1967

Optica 24
[illegible]

26 Time

[illegible]

[illegible]

2 Chromia [illegible]

[illegible]

Beaver
1947

[illegible]

26 June [illegible]

[illegible]

Rhumbs. [illegible]

[illegible]

[illegible]

[illegible]

Simple [illegible]

Beaver
1967

Lipura
[illegible]

26 June | Sample #23 (collected 23 June)
Same as #[illegible]
25% [illegible]

3 Annelids - saved for Median

1 Copa of Diaprepa? 17mm [illegible]

Sample discarded

Beaver
1967

Dipteria
Study 27

27 June Sample #24 (collected 23 June)
Same as #21 - same as #21

1 *Pedicia lunari* 12 mm. Larvae
Sorted for Median

Sample recorded

Beaver
1967

Diptera
Study 28

27 June Sample #25 (Collected 23 June)
Same as #21 - cover the same.

23 Chironomid Larvae - 3 to 6mm - upper 12mm.
saved for Mackeen - all red larvae

8 Chironomid Larvae - 3 to 6mm - just below 12mm
saved for Mackeen - all red - as above

1 Annelid - surface - saved for Mackeen

Sample discarded

Beaver
1967

Diptera
Study 29

27 June | Sample #26 (collected 23 June)
Same as #21 - as before in vegetation

3 Annelids - same for most seen

Beaver
1967

Oyster
Study 3C

27 June Sample #27 (collected 23 June)

Same as #21 - vegetation as before

3 Amelids - saved for Maclean

Sample discarded

Beaver
1967

Cairns
Survey 31

27 June [illegible]

2 P. homai - [illegible]
- [illegible]

Beaver
1967

Diptera
Study 32

28 June Sample #29 (collected 23 June)

Same area as #21. Talsen from trough between two flat polygons. Tundra saturated - standing water in places. Less than 25% grass. Understory of thick moss.

21 Annelida - saved for MacLean

1 P. lamaie - 19mm. (Avalon) saved for MacLean

Sample discarded

Beaver
1967

Apitera
Study 33

28 June Sample # 30 (collected 23 June)
Same as # 21 - and as # 29 grass is 25% bony
moss under colony

1 Annelid. saved for MacLean

1 P. homai 14mm. (Barkes) - saved
for MacLean

Sample discarded.

Beaver
1967

Dystera
Study 34

29 June Sample # 31 (collected 23 June)
Same as # 29, as in vegetation also

0

Sample discarded

Beaver
1967

Ojetlina
Study 35

29 June Sample # 32 (Collected 23 June)

Same as sample #21 - veg. - grass ≈ 50%, heavy moss understory.

0

Sample discarded

Beaver
1967

Diptera
Study 36

29 June

Sample #33 (collected 23 June)
Same as #29 veg ≈ 50% grass - heavy moss understory

0

Sample discarded

Beaver
1967

Diptera
Study 37

29 June Sample # 34 (collected 23 June)
Same as #29 - veg. same as #33

1 P. hemai 15 mm. (Salix) saved for
MacLean.

2 Amelids - 1 discarded - decomposed 1 then saved
for MacLean.

Sample discarded

Beaver
1967

Oysters
Sandy

30 June Sample # 35 (collected 23 June)

Same as #29 veg. same as #34

3 Amelias scared for Maclean

Sample discarded

Beaver
1967

Diptera
Study 39

29 June Sample #36 (Collected 23 June)
Same #29 - very same as #32

1 P. hamei 14mm. Danbar. Dark for
Morton.

2 Amnia - same as Michigan

Beaver
1967

Oystica
study 4C

1 July
(30 June) Steve M. and I went out to Beach Ridge - mice met tangle feet traps area, and we set up 3 emergence traps. I called this line one and traps #1, 2 and 3.

Trap #1 was set on a dry, south sloping area of Beach Ridge that consists of 100% grass and a heavy moss understory. The soil is wet.

Trap #2. Was placed on a wet portion of the ridge to the north of trap #1. The grass cover was 100% grass.

Trap #3 - Was placed on the top of Beach Ridge. The grass here is short - 75% cover, moss understory - 100% - dense.

The second site for the emergence traps was Central marsh on Beach Ridge. I called this line two, traps #1, 2 and 3.

Trap #1 was placed on a area in central marsh having standing water, 75% grass and a dense moss understory.

Trap #2 was placed on the south sloping portion of Beach Ridge at this locality. 50% grass, moss understory sparse. Mud in places. Soil almost dry.

Beaver
1967

Dipteria
Study 41

1 July (Cont.)

Trap #3 was placed on top of Beach Ridge at this locality ~~on top~~ in a trough. The soil was saturated, 75% grass, heavy moss underlying.

T. custer and I checked both traps & moss and found not Tipulids.

Line #1

Trap 7 - 1 Dipteria

Outside temperature - 40° max. 35° min.

Inside temperature - 40° max. 35° min.

Trap #2 - See. Dipteria - Very small collect sample. Rubber band broken. The bottom empty.

Trap #1 - 3 or 4 specimens.

Line #2 Trap #1 - 2 or 3 caught but contents probably blown out in collecting the specimens.

2 July

I checked all the sample collecting 1 July and then immediately left camp. Below is the results of these samples examined.

Beaver
1967

Ophir
Study 42

3 July Sample #37 (Collected 1 July)
Central Marsh low area but not saline.
Wet soil. 20% grass. Many mosquitoes

3 Annelids Saved for Median

1 L demissi 10 mm. (Benthos) Saved
for median

1 Coleoptera Saved for SM.
Sample Accurate

Beaver
1967

Diptera
Study 43

3 July Sample # 38 (collected 1 July)
Same as # 37 50% gross.

10+ Annelids Saved for SM.

2 P. ~~lemnai~~ Both 10mm - saved for SM

Sample discarded

Beaver
1967

Dyeing
Study 44

3 July

[illegible]

[illegible]

[illegible]

Beaver
1967

Diptera
Survey '45

3 July

Sample # 40 Cornelia 1 July /
Sample # 31 50% grass

1 P. [illegible] [illegible] [illegible]

2 Chir. [illegible] [illegible] [illegible]

2 Culicoides [illegible] [illegible]

1 Sphin [illegible]

Beaver
1967

Diptera
Study 4 6

3 July Emergence traps check. - 1455

Line #1 Trap #1

4 Chironomids - large

1 Tipula carinifrons - was ovipositing?

when collected, ovipositor extended

Trap #2

4 Chironomids - large

Trap #3 Out side temp. Max. 54°F

Min. 28°F

Inside temp. Max. 54°F

Min. 29°F

3 small chiron.

Line 2 - 1445

Trap #1 - Sev. large chironomids

2 - 0

3 - 2 P. lemnae adults - ♂'s.

saved.

See journal for details of sampling.

Beaver
1967

Diptera
Study 47

4 July

Sample # 41 (collected 1 July)
Same as #37 25% grass 25% herb.
Heavy moss

1 Tipula carinifrons larva 17mm. saved for
MacLean

2 Ceratia beetles – saved for SM.

7 Spiders – saved for SM.

Sample 4 discarded

Beaver
1967

Oysters
Study 48

4 July Sample #42 (collected 1 July)
Saneas #37, 25% grass heavy moss understory

1. P. Nomai larva 15mm. Saved for SM.

2 Chironomids - 1 larva - saved in vial # 8
1 pupa - saved for SM.

sample discarded

Beaver
1967

Oysters
Study 49

4 July Sample # 43 (Collected 1 July)
Same as # 37. Same as # 42.

1 Annelid
1 Chironomid pupa } Sandsar SM.

Sample discarded

Beaver
1967

Diptera
Study 50

4 July

Sample #44 (collected 1 July)
Same as #37 - Same as #43

1 P. granulistyla 17mm. sandy on SM.

5 Amedius "

Sample discarded

Beaver
1967

Oyster
Study

4 July Sample # 45 (collected 1 July)
Sample from wet, standing water area of central marsh at Emergent top #1, line 2.
50% grass heavy moss understory

0

Sample discarded

Beaver
1967

Oysters
study

52

4 July Sample # 46 (collected 1 July)
Same as #45

2 f. Remei Cove 17mm - saved for SM

sample discarded

Beaver
1967

Diptera
Study 53

4 July Sample # 47 (collected 1 July)

Same as # 45 - 50% gross - clear mass underlay

1 Chironomid pupa - same as SM

Sample discarded

Beaver
1967

Delta
Study 59

4 July Sample # 48 (collected 1 July)
Camera #45 75° [illegible] - [illegible]

3 P. kenoi A - 7mm. B & C 13mm.
Camera for 6 [illegible]

2 Amebas

Samples discarded

Beaver
1967

Oyster
Study

55

4 July

Sample # 49 (Collected 1 July)
Same as #45 - 25% gross x heavy moss.

2 P. lemai - A - 9mm B - 13 mm. Saved for SM.

1 Amelid "

Sample discarded

Beaver
1967

Diptera
Study 5C

4 July

Sample # 50 (Collected 1 July)
Seneca # 45 Seneca # 49

3 P. lemnai A 18mm B + C - 15mm.
Sieved for SM.

2 Amelia "

Sample decanted

Beaver
1967

Diptera
study 57

4 July

Sample # 51 (collected 1 July)
Same as # 45 - 25% gross.

1 P. lemnai 18mm. saved for SM.

1 Chironomid "

1 Spider "

Sample discarded.

Beaver
1967

Diptera
Study 58

4 July Sample #52 (collected 1 July)
Same as #45 - Same as #51

4 Annelids saved for SM.

1 P. tempai 21 mm. "

Sample discarded

Beaver
1967

Diptera
Study 59

5 July Sample # 53 (collected 1 July)
Collected from the South slope of beach dune.
Central Marsh type area. no grass, heavy moss
cover - wet.
2 Amphibs. Saved in
C - Diptera

Sample discarded

Beaver
1967

Oyster
Study

5 July

Sample #54 (collected 1 July)
Same as #53

1 Annelid - Saved for 2 m.

Sample discarded

Beaver
1967

Ophiura
Study 61

5 July | Sample # 55 (Collected 1 July)
Same as # 54

3 Amelido | Saved for S.M.

Sample discarded

Beaver
1967

Oysters
Study 62

5 July Sample #56 (Collected 1 July)
Same as #55

0

Sample discarded

Beaver
1967

Oyster
Study #3

5 July | Sample # 57 (collected 1 July)
Same as # 54

3 Amoebae — discarded

3 Oyster recovered

Beaver
1967

Diptera
Nidy 64

5 July Sample #5? (Collected 1 July)
Same as #5?

1 ♂ [illegible] [illegible] [illegible] [illegible]

Sample [illegible]

Beaver
1967

Oyster
Study

65

5 July Sample #57 (collected 1 July)

Seneca #58 -25% gross.

4 Annelids -Saved for S.M.

Sample discarded.

Beaver
1967

Diptera
Study 66

5 July | Sample # 59 (collected 1 July)
Dances # 59
Amelia -

Sample discarded

Beaver
1967

6 July

Diptera 67
Study

Engage trap data:

Line #1 Trap-3 outside + inside

Max - 44°F

Least 40°F

Min - 28°F

Inside temperatures

Max - 44°F

Least 40°F

Min - 28°F

1 Pedicia rampai Ad. ♂

2 Chironomids

Trap #2 1 Tipula caniceps Ad. ♀

Trap #1 3 Tipula caniceps Ad. ♂♂

At this line, 2 rock core samples #01 through #09. All were taken from the high polygon area of Eagle Ridge. Attempts were made to collect "moss clumps". Small clumps of moss that protruded above the surrounding material. All were from edges or tops of polygons.

Line #2 Entire ground block analysis

Trap #1 4 Chironomids

#2 - 0

#3 - 2 Chironomids

Beaver
1967

Dyeria
Study 68

6 July (cont.)

2 tools core soil sample # 70 through 82 from a trough upon top a hill polygon up Beech ridge.

Beaver
1967

Lupine
Survey #7

9 July

Emergence trap results. - Line #I

Trap #1 - 2 Tipula carinifera Ad ♂♂

Trap #2 - 0

Trap #3 - 0 Outside temp. Max. 50°F, Min 20°F
Dessert -36°F
Inside temp. - No above

Line #II

Trap 1 - 1 Pedia dorsalis ♂♂

Trap 2 0

Trap 3 - 3 Pedia dorsalis ♂♂

Beaver
1967

Notes 78
Page 2

10 July

Tempo #61 collected 6 July;
Beach ridge micro bed, sea. Sample taken from high polygons - moss covered. Tide 7.2 [illegible]
thick mat clay.

Sample discarded

Beaver
1967

Diptera
study

10 July Sample #62 (collected 6 July)
Same as #61

0

Sample discarded

Beaver
1967

Oysters
Study

10 July Sample #63 collected [illegible]
[illegible] [illegible]

1 Staphylinid beetle - [illegible] for [illegible]

[illegible]

~~Emargo trapolite~~

Beaver
1967

Opeliika Study

10 July
1350

Beach Ridge near Micro Met sample area

D. Pitelka and I left for Beach ridge sampling area. We set up a transect running from S to N or NE beginning from the bottom of the south slope of Beach Ridge to the high portion of the ridge. A second line was run from ending point of the previous line to a point S.W. of other line.

Five foot hoops, 18 meter wide were set up by placing a rule along the strings at spacing on 1' stake perpendicular to the string. All plants in this area were counted and clipped. Habitat was noted in the sampling sequence. V2 Live root weights were sampled in line #I and 2 in line #2. Next time, I'll put in detailed microhabitat data. Also, the data will be put in native units to give a 1/2 m² sample at each station. The data for the first run of line #I & II are on the following pages. See journal for situation. On Line II, we found 3 T. pulchella that appear to be different. 2 were mating. These are considered #10.

1967 | Pikelka + Beaver | Sunday 74

Beaver Pitelka

1967

Captive 7.5
study

10 July

✓	F	
✓		
✓		C
✓		
✓	M	
✓	M	
✓		
✓		
✓		
✓		
	F	
	F	

		+	[illegible]	[illegible]
total	♂	21	[illegible]	0
	[illegible]	6	4	0
		37%	[illegible]%	
		8.2	[illegible]	
		2.06/m²	[illegible]/m²	

Pitelka
Beaver

Oysters
study 76

Beaver
1967

Oysters
Study 77

11 July | Sample #6 4 collected 6 July)
Same as #6 1 50% gross, light moss covering

Beaver
1767

Spider 78
[illegible]

1/July [illegible]

[illegible]

1 Tipula [illegible] 22 mm 12 mm U.S.
[illegible]

[illegible]

Beaver
1967

Capitis
[illegible]

11 July

Sample #[illegible] [illegible] only,
[illegible]

0

Sample discarded

Beaver
1967

Lydia
Mud 4 50

11 July Sample # 66 (collected 6 July)
Same as #61

0

discarded

Beaver
1967

Oysters
nearly

81

11 July

Completed Oysters study

Same as the 9

0

Discarded

Beaver
1967

Cipolla
Survey 62

11 July

Sample # 8 Located at Italy.
Cores # 1.

0
decades

Beaver
1967

Dipstick #3

11 July

Sample #17 [illegible]
[illegible].

0

Discarded

The samples have produced so little that they will be combined on pages from here on.

Samples #70 - 80 discarded - no time to do

Beaver
1967

Ojibwa
Study 57

12 Ins

Emergency Table.

Line #1 1 - 1 Tipi's [illegible]

2 - [illegible]

3 - [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Line #2 1. [illegible]

[illegible]

[illegible]

[illegible]

Beaver
1967

Opatrus
Spring 25

13 July Transect #2 [illegible]
½ meter square - 63 units.

NO.	Sex	Tiddle	Tri-moreum	[illegible]	Adult: [illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	♂ ♀								
2	♂ ♀								
3	♂ ♀								
4	♂ ♀								
5	♂ ♀			1					
6	♂ ♀			1	1				
7	♂ ♀								
8	♂ ♀				1				
9	♂ ♀								
10	♂ ♀				1				
11	♂ ♀				2				
12	♂ ♀				2				
13	♂ ♀	1							
14	♂ ♀								
15	♂ ♀				1				
16	♂ ♀								
17	♂ ♀				1				
18	♂ ♀								
19	♂ ♀				1				
20	♂ ♀				1				
21	♂ ♀				111				
22	♂ ♀								
23	♂ ♀				2				
24	♂ ♀				2				

Veg. reversed!
Total living

Beaver
1967

Lights 86
Nov

13 July Cont.

No.	Ex	Date	Locality	Sex	Age	Weight	Bait	Trap	Remarks
25	♂ ♀								
26	♂ ♀								
27	♂ ♀								
28	♂ ♀								
29	♂ ♀								
30	♂ ♀								
31	♂ ♀								
32	♂ ♀								
33	♂ ♀								m-ch/w/ 3oA, 14, 1/1
34	♂ ♀								13
35	♂ ♀								
36	♂ ♀								12
37	♂ ♀								
38	♂ ♀								f/s/ 11
39	♂ ♀								4/5/ 11
40	♂ ♀								
41	♂ ♀								m/w/ 3oA/ 4/5/ 2
42	♂ ♀								m-ch/w/ 4NA, 3/4/ 3
43	♂ ♀								3NA 4/ 2
44	♂ ♀								
45	♂ ♀								
46	♂ ♀								m/2, f/2, 1/5/ 11
47	♂ ♀								f/s/ 1/2, mostly 1/2/ 6
48	♂ ♀								11 4/5
49	♂ ♀								

Beaver
1967

Cabin 87

13 July [illegible]

No.	[illegible]	Finds	Diameter	Remarks
5[illegible]	[illegible]			[illegible]
5[illegible]	[illegible]	1		[illegible]
5a	[illegible]			[illegible]
5b	[illegible]	1		" d "
54	[illegible]	1		map " [illegible] "
55	[illegible]			" [illegible]
56	[illegible]			lp slope " [illegible] "
57	[illegible]	1		Lp erodes [illegible]
58	[illegible]	1	1	" [illegible] "
59	[illegible]	1		"
60	[illegible]	1		"
61	[illegible]			" [illegible] "
62	[illegible]	1	2	"
63	[illegible]			lp [illegible] [illegible]

Beaver
1967

Oyster 58
Survey

15 July [illegible]

Beaver
1967

Diptera
Study 88

17 July Berlesed sod samples from Central Marsh
14 July - collection date - 17 sods collected.
All placed in Berlese funnels.
All larvae saved for SM.
P. lomai 7 - larvae - 4 → 10 mm, 1 → 8 mm. 2 - 14 mm.
Prionocera g. 1 - larva 21 mm.

Diptera larvae - not counted yet.
Small larvae

2300 Steve and I collected 18 sod samples 10 cyds.
south of Imikpuk lagoon. Area sat. - by
recent rains.
Prionocera g 1 → 24 mm, 1 → 9 mm. (placed in
vial #8) 1 → 25 mm, 1 - 23 mm, 1 - 15 mm, 1 → 10 mm.

Diptera larvae saved - not counted.

[illegible]

18 July Emergence Traps

Line I #1 0 ♂ Ad. Chironomidae –

#2 0

Flooded – #3 – Outside – 4.0°F

inside "

Line II #1 1 Pedicia ♂ – Flooded.

#2 0

#3 – 0 – Flooded

19 July Picked up 10 soil samples from line 48-B from S.W. flat area – grassy. Floodin pumice some clay.

2 for all samples a few Diptera larvae. – Chironomidae

21 July 1020 Steve M. and I went out line I and collected the stolen Ponds, & checked the emergence traps.

#1 – 0

#2 – 0

#3 – 0 – outside 42°F – inside 42.5°F

At line II

#1 – 0

#2 – 1 ♀ Tipula sp.

#3 – 1 Chironomid ♀ ♂

We collected 16 soil samples, 8 from roadway and 8 from undisturbed part of [illegible]

Beaver
1967

Diptera
Study 90

21 July (cont.)

While at line #1 - 2 characterized the following sticky board sites. #1 - m - w - 4/0 - A - 4/4 - C3
#4 - Rp - d - 2/1 - A - 2/2 - Co.

23 July Changed sod samples - The 8 from the roadway yielded 0. The other 8 from undisturbed ground yielded:

2. P. tannia 1 → 23 mm., 1 - 12 mm.

samples discarded

P.M. Steve and I collected 16 sods from North Meadow Lake - West side. These were placed in funnels immediately.

24 July Emergence traps line # I

Trap #3 - 0 - 44°F - out
40°F - in

Trap #2 - 0
Trap #1 - 0

Aerial net trap. Top - 6 Ad. Nematocerans
3rd - 6 Ad. "
1 Ad. Brachyceran
2nd - 1 Ad "
1 Ad. Nematoceran.
Bottom - 11 Small Ad. "
1 lg. Ad "

Beaver
1967

Diptera
Study 91

24 July (cont.)

Site # II

Trap #1 - 1 Ad. Trichopteron

Trap #2 - 1 ♀ tipula

Trap #3 - 0

26 July P.M. Checked 23 July samples.

yielded:

6 P. Rommai - 1 → ≈ 20 mm., 2 → 12 mm.

1 → 8 mm., 2 = 14 mm.

Samples discarded.

Steve and I put in samples collected earlier today from E. side of Central Marsh. (16 sacks)

27 July. Emergence traps. (Raining)

Site # 1 - Trap # 3 - 0 - 36°F out

36°F in

Trap #2 - 0

Trap #1 - 0

Site # II - Trap # 1 - 2 Brachycera

" #2 - 0

" #3 - 1 Lg. Chironomid

Beaver
1967

Diptera
Study 92

28 July 1st check of the 26 July Sorb was made today.
Found:
T. P. lemai -1 → 18mm, 3 → 11mm. 1 → 9mm., 2 → 14mm.

Dipteran larvae (Nematoceran probably)

Sample #	28 July AM.	[redacted].	29 July AM.	PM	last check
1	73		33	7	20
2	8		20	3	7
3	223		41	5	13
4	17		12	3	5
5	83		17	3	3
6	84		27	4	7
7	83		50	12	32
8	74		41	8	13
9	113		43	5	8
10	131		66	6	21
11	27		21	4	2
12	15		62	11	12
13	35		28	12	10
14	139		41	7	4
15	15		20	0	2
16	136		51	3	12
Totals	1275		573	95	171

Total this sample 2106

Total of 21+23 and 26 July Nemato = 3462

Beaver
1967

Diptera
Study 13

29 July

~~A~~ 8 Sod samples collected from ~~control~~ marsh grassy area.

1st check	2nd check
2 Bronocera g. larvae	3 P. hannai
1 27mm.	1-14mm.
1-20mm.	2-10mm.

9 P. hannai	3rd check - 4 August.
1-15mm.	4 × P. hanna.
4-12mm.	6 mm, 15 mm, 10 mm,
3-10 mm.	14 mm.
1-9mm.	

Samples discarded; see below.

Steve and I decided that sod samples will be sorted in the earlier hours each day & day. The amount time will be the limiting factor, and sorting will begin to be done in spring & on. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

Note: Hans picked 4 August: found 4 P. hannai larvae - 16mm, 12mm, 11mm, 9mm.

= 80% efficiency ($\frac{16}{20}$) with berlese extraction.

Beaver
1967

Optica
Image 14

30 July

8 Sod samples collected from flat east of ATCS. Pond edge and trough areas. Called area the Beach Ridge Crossing.

1st check		2nd check
1 *Prionocera g.* - 23mm.	1 larva	1 *Prionocera g.* larvae - 29-32mm
16 *P. hamai* larvae.		
11 - 11mm.		
1 - 15mm.		
2 - 9mm.		
3 - 6mm.		

[redacted]

Sample discarded - 4 August, 0800.
[illegible].

D. Beaver
1967

Alaska

Species Accounts

Beaver
1967

Species account

Arctic
loon

1

Barrow, Alaska

26 July On a transect near Elson Lagoon, two Arctic loons flew over and they were giving a sort of quacking-honk like call. They flew around the area for about 10 minutes doing this and then the both lite in a small pond. The landing was spectacular in that they just "crashed" into the water.

Beaver
1967

Species
Account

King Eider 1

13 June

Barrow, Alaska

0930 Like just walked across a very large area that is completely covered with old barrels and other trash. Like never seen such a pile! Anyway, I came upon a ♂ Eider - King like sitting in a small pond. The colors on this bird are really something! The bird never attempted to fly even though I walked to within a few feet of it. It must be injured or bird home. I won't the alibis by much.

17 July I haven't been recording it, but since about 1 July, flocks of King, Pacific and spectacled Eiders have been flying west along the coast. I read an interesting paper on the Eider loss at Pt. Barrow - and this called there presence to my attention.

Beaver
1967

Species account

Golden Plover 1

13 June Barrow, Alaska

1030 Hunt in one area that is to the east of a road and all the drain. Horse and dogs here but not many. Quiet saw a large plover with black breast but it identified as a Golden Plover. It is running on the sloping sides of the pond. Dark area a little above tail, part of a long line. Call. It is a much better than I expected it to be.

16 June Several pairs directly behind camp. Looks like they may nest.

24 June Central marsh now has small flocks of non-breeding (?) or possibly ones that failed to complete egg laying etc. The birds are feeding on the wet marsh & disturbed areas at the base of Beach Ridge

P.M. Nest of G.P. discovered in Barrel area today. The eggs are very large

30 June Flocks in cent. marsh and close where are growing in size. Must be more birds that did complete nesting.

13 July Have consistently observed a small, mixed flock of G. Plovers near ARCS since about a week ago. Other sandpipers in the flock are mainly R.B. Sandpipers and Pectorals.

Beaver
1967

Species accounts

Golden Plover 2

Barrow, Alaska

16 July — Steve & I captured an ad. on its nest near FAA. This was accomplished by placing a mist net on the ground near the nest and then flipping it up over the bird as it settled on the eggs. See Journal for diagram (pg 48.). Hopefully, other birds will be captured this way.

17 July — ~~the~~ Steve & I looked at a nest near HAPCS - must have young because parents gone displays near by - and are with 4 eggs on Beach ridge. We made plans to capture the adults by the mist net method. Later - PM - Steve & I caught one adult from each nest.

Beaver
1967

Hudsonian
Curlew

1

11 July
1400

Barrow Alaska Near AACS building.

Dr. Pitelka, Tom Custer and I were driving south towards lines I and II (banding trap lines) when Dr. Pitelka sighted 3 large white birds sitting on beach ridge about 500yds. east of us. He identified them as Hudsonian curlews. I took several photos with the 35mm Leica, and then attempted to get close enough to attract me. He succeeded to do this, as I had begun to do a strange walking on tiptoes and not paying any attention to them. At a few several times on the right bird in the second trip. He then approached that very animal, and proceeded very close with its bill in contact.

Brown
1967

[illegible] [illegible] Calidris pusilla
Semipalmated
Sandpiper 1

13 June 0940 [illegible] about 1 mi [illegible] of Barrow camp, many have [illegible] Baird's, [illegible], [illegible]. [illegible] a large [illegible] [illegible] wire (about [illegible] 100 ft.). The sandpiper [illegible] [illegible] with a [illegible] [illegible]. I [illegible] a semipalmated sandpiper. The [illegible] giving "[illegible]" call [illegible]. [illegible] in [illegible] [illegible] as low as 4 or 5" from the ground.

15 June 0912 In [illegible] with [illegible] 2 C. pusillus, [illegible] (?) [illegible] up in the air [illegible] [illegible] giving a continuous [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] ~~[illegible]~~ [illegible] during this time. When the [illegible] [illegible] the second time, it [illegible] [illegible] which assumed a similar posture [illegible] off. [illegible] the other [illegible] [illegible] with its wings. [illegible] this [illegible] in [illegible] of the [illegible]. The [illegible] of the

Beaver
1969

Birds count C. pusillus 2

15 June (cont.)

0915 (cont.) of the two birds indicate both were males and that a territory was in dispute.

0940 The C. pusillus nest contains by now 3 eggs which are pointed towards end on side. The greater at the blunt end is a darker brown than the smaller one. The birds were quite nervous during this examination of the nest. To give a clear view by carefully flying about.

20 June Seem to be semipalmated sandpiper only in the Barrel area. Here there are a number of them. The green turbine is surprisingly empty of C. pusillus!

13 July The semipalm. have hatched (most nests, I think) I took photos of the young of a nest group near AHCS.

15 July Still activity in the Barrel area. Should be coming to a close soon though since young of most nest are hatched & moving off.

17 July Steve & I came across a small flock of semipalm, Baird, and white rumped sandpiper feeding in a pond near the reefers. The birds appeared to be taking aquatic larvae of some kind.

Beaver
1967

Species account

Semipalmated Sandpiper

3

Barrow, Alaska

30 July Large (40-70) flocks of Semipalm. are now appearing in cent. marsh. Today, there were at least 3 of these flocks in c.m. They are very tight flocks and the fly frequently.

Beaver
1967

Species accounts

Pectoral Sandpiper 1

Barrow Research Station

13 June — Saw a Pectoral Sandpiper feeding on a small knoll. The bird was moving rapidly between small open patches in the snow. It gave no calls.

AM. K. Tolonen and I walked down a ridge the K.T. called village ridge. We came across a flock of 17 (By both our counts) of mainly ♂ birds (most had the large grey inflated chests and were pursuing ♀'s about while give "hoot" and what sounded like a low, booming series of hoots.) Most of the ♂ were feeding on open patches of tundra.

14 June — Dr. Pitelka, Steve & I saw a few (very few in relation to what can be there - a.c. Pitelka) birds flying around foot print lake (N. end).

24 June — ♂'s flocked or at least appear to be starting. Steve collected 4 ♂ from small flocks.

No ♀'s were seen.

~~AM Found ♀ nest in Basal area.~~

30 June — Larger Flocks of ♂ are now appearing on the tundra. Max. size is about 20 birds from what I've seen. Many mixed flocks (small) with pectoral, Red backs, Dowitchers and Plover.

14 July — Steve, Edna & I came across a mixed flock of ~~Pectoral~~ P. Sandpipers and RB's. There was about 30-40 birds in the flocks. This is the largest flock so far.

Beaver
1967

species account

Pectoral Sandpiper 2

Barrow, Alaska

14 July (cont.) A short distance on in central Marsh, we came across a flock of all pectorals (40-50 birds) that is the largest we've seen yet. This is small compared to past years at this time. (Per. comm. - Steve).

15 July P.M. Steve collected 5 Ads. from a flock near ARCS. This flock has been growing in size last few days. It has been mixed, having G. Plovers, R. B. Sandpipers, an occasional Baird's and ~~one~~ today a Curlew Sandpiper (Seepp. acc. for 15 July - C. Sandpiper).

21 July Scattered flocks still around, but not nearly as many birds as earlier.

Beaver
1967

Spring recount Bar-tailed Godwit

1

13 June **Barrow, Alaska**

4 PM [illegible]

[illegible]

14 June

1020 [illegible]

11 July T. Custer, Dr. Pitelka and I are setting traps at line 1 + 2. A R.B. Sandpiper has a nest near by because she has been giving distraction displays around us as we set traps. There seem to be few R.B.S's in the area. Much lower density than previous years (F.A.P.).

Beaver
1967

Species account

Red Back Sandpiper
2

13 July.

The young Red Backs are now moving about. I photo'd one near AACS. I suppose most nest have hatched or will be soon.

15 July

Steve & I come across 2 family groups of R. B's feeding on a slight, raised hillock in the N. edge of Cent. marsh. They were probably eating Tipulids. We found all three sp. of Tipulids there but Tipula c. was very abundant (in relation to other two).

21 July

Steve & I have been doing transects and I've noted (so has Steve) the complete lack of birds on the tundra. I've seen a few scattered Red Backs since the transects began. Amazingly quite.

Beaver
1967

Curlew Sandpiper 1

15 July
1930

Coast of Alaska, Denver Alaska

Steve & I saw a medium sized shorebird today at a pool of the Colville, Pectoral, Baird's and a few others when I saw a Curlew Sandpiper. Attempted to get with all of them. We got out to examine it but it wouldn't wait.

Beaver
1967

Species account

Buff-Breasted Sandpiper
[illegible]

1

27 June
1615

[illegible] area 1/2 mi S. of the camp. Steve MacLean and I were returning from a walk to the S. end of [illegible] Lagoon via [illegible] Ridge, when we sighted a Buff-Breasted Sandpiper in [illegible] [illegible] [illegible] aerial display. Two birds [illegible] males were flitting side by side with [illegible] [illegible] [illegible]. They [illegible] [illegible] about [illegible] and [illegible] with [illegible] around.

The [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] area. [illegible] [illegible] [illegible] [illegible] [illegible] continuing [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] feet [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] out, and the [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Beaver
1967

27 June, cont.

1615 [illegible]

28 June [illegible]

Beaver
1967

Species account Northern Phalarope 1

13 June Barrow Alaska (near FAA Bldgs)
K. Tolonen and I came upon a pair feeding in a small pond near the road. As we approached, they gave a shrill alarm call but didn't fly. We got within 5' or so of them.

6 Aug. Saw two birds on a pond at Umiat. C. White showed the spot two us in hopes we would see a W. Snipe - which we didn't.

Beaver
1967

Species account Red Phalarope

Barrow, Alaska (near F&A buildings)

13 June K. Tolonen and I come upon a pair feeding in a small pond where two Northern Phalaropes were feeding. The Reds gave a call (alarm, I'm sure) that was higher pitched than the Northerns. Both birds were quite tame.

10 July I have noticed that ♀'s are gone now or at least few are around. ♂'s are incubating eggs and are inconspicuous. Some are still in nonbreeding (?) plumage.

Beaver
1967

Species [illegible]
Image [illegible]

13 June
0950

[illegible] left [illegible]
[illegible] sitting on [illegible]
piece of [illegible] vegetation. It had [illegible]
a [illegible] in it [illegible] [illegible] of [illegible].
[illegible] [illegible] [illegible]
[illegible] without. [illegible] [illegible]
[illegible] a [illegible] very similar to that of [illegible]
[illegible]. It [illegible] [illegible] the [illegible]
and appeared [illegible] [illegible] [illegible] at the
ground while [illegible]. It [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
that [illegible] [illegible] [illegible] [illegible]
a [illegible] [illegible] [illegible]!)

14 June
[illegible] I. and I [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]. [illegible]
14 [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]. [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible]

[illegible]

[illegible]
[illegible]

S. [illegible] and I are [illegible] ridge
and have [illegible] [illegible] sitting
[illegible] a low, [illegible] [illegible] of the [illegible] & of the
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

Beaver
1967

[illegible]

17 June Cont.

As we approached the bird, one flew up from the nest and towered up giving a "cow" cow" call. [illegible] us but [illegible] came [illegible] immediately [illegible] nest. [illegible]

[illegible]

24 June Steve & I were checking the tangle foots so I checked the nest. Could not find the exact spot nor were the adult bird around. Must conclude the nest failed. This appears to be the case elsewhere except in the flat just NW of fence by Family Lagoon. I think that nest is still active.

Beaver
1967

Stercorarius parasiticus — Parasitic Jaeger

1

13 June
1045

Barrel area, 7 Mi. E. Denver Arsenal
I just saw a dark bird with short, pointed outer rectrices which I believe to be a parasitic Jaeger. The bird flew with a slow wing beat across the road low and out of sight.

15 June
0930

Near T. 2 I just saw a dark, gull like bird which I believe and thought was a parasitic Jaeger. The central rectrices were short and pointed. It flew to the east a short distance and then rose to circle. Good view.

5 July

I collected a beaten up ad. parasitic Jaeger in the Barrel area. The bird is in tattered plumage to a degree that suggests molting.

7 July

The tarsal skin is very pasty as I collected it in white gas.

Beaver
1967

Species accounts — Long tailed Jaeger 1

Barrow, Alaska

9 July — T. Custer and I saw a flock of L.T. Jaegers feeding on Beach ridge. They appeared to be eating tipulids. They flew as we approached and their flight was very "tern like."

26 July. Have seen several individuals hunting along Beach Ridge near micro met and near Smithe census plot.

Beaver
1961

[illegible] Sheet 1

13 June
0950

[illegible]

14 June
1030

100 yds. N. of Bepkine ridge, Lemas Area

[illegible]

17 June
1050

[illegible]

Beaver
1967

Species accounts Snowy Owl 2

19 June
2000

[illegible] River, Ft. Simpson, Keewatin, T. We saw and saw a few carving a [illegible] black and white bird. He [illegible] down into the swamp and [illegible] water. We move up [illegible] with the bird [illegible] the [illegible] of [illegible] returning to the [illegible] L.B. [illegible] at [illegible] a little [illegible] [illegible].

23 June

Both S. Owl nest in the area have failed (Steve & Dr. Pitelka observ.) must not be enough lemmings around to keep them going. The Adults are still here but no nesting is going on.

7 July

Several owls still in the area near camp. One stays in the barrel area most of the time. One nearly always seen in central marsh and one out on Beach Ridge near micro met.

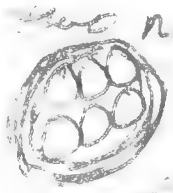
Beaver

Species accounts — Tufted Long-spur

13 June
0915

Barrow Research Station, Alaska.
Just visited 2 tufted long-spurs. Here are several other pairs nearby. This pair is feeding very near edge of a stone or gravel in the tundra. They seem to be eating grass or possibly seeds. Every few minutes the ♂ stops and gives a rolling trill-type song.

14 June
A.M. ~10:30

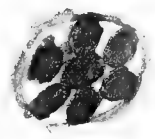
S. Maclean, L. Petticlerc and I came on a area of high centered polygons. We soon came upon a marked (by Petticlerc) long-spur nest. There are six eggs in the nest arranged as: in two rows of three. The eggs are cards colored  and show very fine speckling. The ♀ flew off a couple of times and showed calling, while we examined the nest.

15 June
0920

Next T. and I visited a long-spur nest found and marked earlier by me. The nest has six eggs in it and this arrangement was that of the previously described nest. Might note here that both this and the nest of 13 June are necessarily part of the egg-cycle nest lining built on hillsides in the vicinity of the surrounding ponds.

Cramer
1907

17 June



Beaver
1967

Snow Bunting 1

Species accounts

13 June — Barrow Research Station, Alaska

09:10 I saw two Snow Buntings, ♂ & ♀, moving around in a small grassy knoll just 100 yds South of the res. station. The male is much whiter than the ♀. He gave brief note and fluttered around near the ♀ with his wings held slightly away from his body. The ♀ did nothing.

16 June — Both birds again were resting in the small net for in the last of the morning. One ♂ and one ♀.

18 June — Other S. Buntings are nesting in the Barrel area, most in barrels. Saw one ♀ that was badly oil stained. She was able to fly, but not well.